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EN

831085000

rev. 1.0

14/02/2023

3-key user manual

PELLET STOVE



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1 PRODUCT DESCRIPTION

1.1 TECHNICAL DATA



The "TYPE" stove type is indicated on the CE plate, present on the back of the product or inside the openable doors.

Stoves

Type	SP4	SP6	SSL6.5	SPSC8	SPCT8	SPV-M105S	SS10-24	S10-24
Heat output (P _{MAX} / P _{MIN} kW)	4.0/2.0	5.0/2.5	6.5/3.1	8.0/4.0	8.0/2.5	10.0/3.2	9.9 / 3.0	9.9 / 4.5
Efficiency (P _{MAX} / P _{MIN} %)	89.5/93.5	87.5/92.0	90.0/93.0	87.5/91.5	88.0/90.0	91.5/94.5	89.0 / 93.5	90.0 / 94.5
Hourly consumption (P _{MAX} / P _{MIN} kg/h)	1.0/0.5	1.3/0.6	1.6/0.7	1.9/0.9	2.0/0.6	2.4/0.9	2.5 / 0.6	2.3 / 1.0
CO at 13% O ₂ (P _{MAX} / P _{MIN} mg/Nm ³)	0.016/0.023	0.019/0.024	0.006/0.017	0.015/0.020	0.010/0.013	0.007/0.016	0.013 / 0.010	0.006 / 0.010
Fume temperature (MAX °C)	154	227	173	185	214	180	202	204
Gas flow (MAX g/s)	4.1	4.1	5.5	5.8	6.1	8.1	7.2	6.7
Minimum draw (Pa)	10	11	11	12	12	11	12	11
Voltage / Frequency (V/Hz)	230/50	230/50	230/50	230/50	230/50	230/50	230 / 50	230 / 50
Distance from flammable wall (Back / Side / Front mm)	40 / 300 / 1000	250 / 300 / 1000	10 / 300 / 1000	200 / 200 / 1000	100 / 250 / 1000	250 / 300 / 1000	30 / 300 / 1000	30 / 300 / 1000
Distance from NON-flammable wall (Back / Side / Front mm)	40 / 200 / 1000	250 / 200 / 1000	10 / 200 / 1000	100 / 100 / 1000	100 / 150 / 1000	250 / 200 / 1000	30 / 150 / 1000	30 / 150 / 1000

Kitchens, stoves with oven and generator

Type	CPV-8072	CPV-8072 Recessed	CPF-85	SPF8,55S	GP-204S
Heat output (P _{MAX} / P _{MIN} kW)	7.2/2.5	7.2/2.5	8.6/3.4	7.5/3.0	18.6/7.0
Efficiency (P _{MAX} / P _{MIN} %)	90.0/93.0	90.0/93.0	92.5/95.0	88.0/90.5	90.0/94.0
Hourly consumption (P _{MAX} / P _{MIN} kg/h)	1.7/0.6	1.7/0.6	1.9/0.7	1.8/0.6	4.3/1.6
CO at 13% O ₂ (P _{MAX} / P _{MIN} mg/Nm ³)	0.020/0.014	0.020/0.014	0.018/0.054	0.018/0.023	0.001/0.022
Fume temperature (MAX °C)	146	146	111	188	161
Gas flow (MAX g/s)	5.2	5.2	6.1	6.9	11.8
Minimum draw (Pa)	11	11	12	12	11
Voltage / Frequency (V/Hz)	230/50	230/50	230/50	230/50	230/50
Distance from flammable wall (Back / Side / Front mm)	10 / 200 / 1000	10 / 10 / 1000	50 / 50 / 1000	200 / 300 / 1000	80 / 200 / 1000
Distance from NON-flammable wall (Back / Side / Front mm)	10 / 100 / 1000	10 / 10 / 1000	50 / 50 / 1000	200 / 200 / 1000	80 / 100 / 1000

1.2 PRODUCT FEATURES

Consult the Technical Data paragraph to view the product characteristics and the Installation, use and maintenance manual for all information for correct installation.



In case of installation with upper flue outlet it is necessary to break the pre-cut present in the top of the product. Use a hammer and with a firm blow break the pre-cut. Be careful not to damage the rest of the stove.

TRADITIONAL STOVES AND GENERATOR



THE LENGTH OF THE FUME DUCT MUST BE A MAXIMUM OF 6 METRES OF 80 mm DIAMETER TUBE AND EACH 90° BEND OR (T) CONNECTION MUST CORRESPOND TO 1 METRE OF TUBE.

TO GUARANTEE THE CORRECT OPERATION AND YIELD OF ALL OUR PELLET ITEMS, INSTALL A T-CONNECTION AND AT LEAST 1 LINEAR METRE OF FUME DUCT CERTIFIED IN ACCORDANCE WITH EN1856-2 BEFORE CARRYING OUT A CONNECTION TO THE FLUE PIPE.



i Install the turbulator (where present) in the smoke duct. The linear part must rest on the bottom of the T-fitting.



PELLET STOVES

The pellet stove, depending on the model you have purchased, can be installed flush or with free-standing installation. For built-in stoves, furniture may safely be placed on the hob. The safety distance is given by the heads of the screws installed in the lid. It is possible to close the gap between lid and hob with high-temperature silicone.

Before installing the stove rotate the rear upstand (if any), by loosening the screws. If rear exhaust installation for the stove is required, break the pre-cut form at the back and then install the fume duct.

This type of stove combines the convenience of pellets with the proven tradition of an economic kitchen with which it is possible to prepare meals and heat the environment at the same time. Thanks to technology, in this case also not only is it possible to cook but the appliance was created to provide plenty of space to do so. In addition, pellets are easy to handle, both in terms of feeding and accurate temperature management as they are clean and do not cause clutter.

This economical ventilated pellet stove is equipped with a frontal pellet loading system that is very easy to use and which makes it extremely practical in everyday use. Its wide top plate, available in steel or glass ceramic, is perfect for cooking meals using the heat given off. The fume outlet is top or rear.

In winter, forced ventilation facilitates rapid and uniform heating of the entire room, while in summer cooking can occur with no forced ventilation. Conceived to be functional, the design was not secondary, in fact the large glass panel was intended to make the fire visible.

PELLET STOVES WITH OVEN

The pellet range cooker with oven can be installed built-in or free-standing.

For built-in stoves, furniture may safely be placed on the hob. The safety distance is given by the heads of the screws installed in the lid. It is possible to close the gap between lid and hob with high-temperature silicone.

Before installing the stove rotate the rear upstand (if any), by loosening the screws. If rear exhaust installation for the stove is required, break the pre-cut form at the back and then install the fume duct.

Component description



Key: VEN: ventilation air outlet; PI: Upper plate in steel or ceramic glass (only version without oven); CP: extractable pellet drawer; DI: display; POR: firebox door; PF: oven door; SC: lower door (location of ON/OFF switch, safety thermostat, RS232 socket).

PELLET STOVE WITH OVEN

The product leaves the factory with upper venting.

If rear exhaust installation for the stove is required, break the pre-cut form at the back and then install the fume duct.

Component description



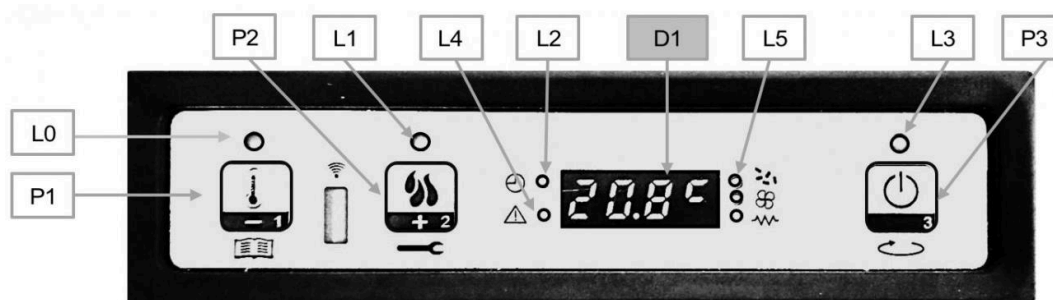
Key: VEN: ventilation air outlet; CP: extractable pellet drawer; DI: display; POR: firebox door; PF: oven door.



In this product it is possible to rotate the air fan and duct it into the room in the rear part. If air from the stove requires ducting to a different room, recall that air is drawn from the room where the stove is installed and, when cooking, the smell of food may also be transferred to the ducted room.

2 USE OF THE PRODUCT

2.1 3 BUTTON DISPLAY



The control board can be managed by simply pressing a few buttons on the control panel. A display and the LED indicators inform about the stove operational status. When in programming mode all the parameters that can be modified using the buttons are shown on the display.

PANEL DESCRIPTION

LED (L0) set room	LED (L5) auger/exchanger/glow plug
LED (L1) set power	Button (P1) decrease/menu/set room temperature
LED (L2) chrono	Button (P2) increase/stove status/set power
LED (L3) ON/OFF	Button (P3) ON/OFF/esc/confirm
LED (L4) alarm	Display (D1) status/power/parameter

MENU

Press button P1 to access the menu. This includes several items and levels to access settings and control board programming.

SET CLOCK menu

Keep button (P1) pressed until message M1 appears, confirm with the ON/OFF button (P3), with buttons (P1) and (P2), change the current day and press the ignition button; set the hour and press ON/OFF (P3); set the minutes and press ON/OFF (P3); set the current day as a number and press ON/OFF (P3), set the current month and press ON/OFF (P3), set the current year; to confirm and exit keep the ON/OFF (P3) button pressed until the time reappears.

SET CHRONO menu

Submenu – Enable chrono:

Keep button (P1) pressed until message M1 appears, press the (P2) button up to M2, confirm with ON/OFF button (P3); the menu M2-1 appears, confirm with ON/OFF (P3) and with the arrow (P1) set ON to activate the general chrono; go back keeping ON/OFF (P3) pressed, with button (P2) choose the programme to enable.

Submenu – Day chrono:

Two fixed ON/OFF cycles for each day.

Submenu – Weekly chrono:

Four ON/OFF cycles and the days must be selected for each time.

Submenu – Week End Chrono:

Two ON/OFF cycles for Saturday and Sunday.

To set a program:

Enter the desired programme by pressing ON/OFF (P3) once. The first parameter is the enabling of the programme itself, which should be set to ON by pressing the (P2) button (CAUTION: ENABLE ONE PROGRAMME AT A TIME TO PREVENT ISSUES WITH THE CHRONO). Press ON/OFF (P3), to set the START time, with buttons (P1) and (P2) enter the desired switch-on time; press SET (P3) to set the STOP time: with arrows (P1) and (P2) set the switch-off time; only for the weekly program, press SET (P3) with the days requiring confirmation, with the ON/OFF button, navigate between the days of the week and with buttons (P1) and (P2), set ON or OFF. Once the times and days have been set, to confirm and exit the chrono, press and hold the ON/OFF button until the initial screen is seen; if the times have been set correctly, a green LED will illuminate near the clock at the top left of the display.

SELECT LANGUAGE menu

Use this command to select one of the languages available. Press P2 (increase) and P1 (decrease) buttons to scroll through the options and press P3 button to confirm.

STAND-BY menu

In this menu it is possible to activate or deactivate the automatic stand-by of the stove. When selected, if the conditions have all been met, the stove will enter MODULATE – OK STDBY. This state lasts for 10 minutes. Once this time has elapsed, the stove will switch off and then switch on again when required.

BUZZER MODE menu

Allows the controller buzzer to be enabled or disabled during alarm signalling. Press the P1 or P2 button to enable or disable this command and P3 to confirm

FIRST LOAD menu

This function is available only when the stove is switched OFF. It allows the Auger tube to be loaded upon the first stove start-up when the pellet hopper is empty. After selecting the INITIAL LOAD menu, “Press more” will scroll on the display. Then press P2 (increase). The exhaust blower switches on at the maximum speed and the auger tube (auger tube LED on) starts working. They will switch off once the period of time indicated on the display has elapsed or after pressing the P3 button.

STOVE STATUS menu

Enter the STOVE STATUS menu, after pressing the P3 button, the display scrolls the status of a number of variables during operation of the stove in working mode.

TECHNICAL menu

This menu item is reserved for the stove installer.

EXIT menu

Selecting this item, pressing button P3 will exit the menu and return to the previous status.

2.2 USER FUNCTIONS

Standard functioning of a control board properly installed on an air stove is described below with reference to the functions available to users.

Stove ignition

Hold P3 button down for a few seconds to switch on the stove. The successful switching on procedure is indicated in the display with the message "ON" and the flashing ON/OFF LED. During this phase, the stove goes into pre-heating status; both the glow plug (as indicated by the corresponding glow plug LED) and the exhaust blower switch on.

Any problem detected during the switching-on phase is indicated on the display and the stove goes into alarm status.

Loading with Pellets

After approximately 1 minute the pellet loading phase begins and the message "Load Pellets" appears on the display. During the initial phase, the auger tube loads the pellets into the burn pot for a fixed time. In the second phase the auger tube turns off, while the speed of the fumes and the glow plug remain in the previous state. If ignition does not occur after this phase, the auger tube is switched on again and the glow plug remains on.

Fire present

Once the flue gas temperature has reached and exceeded a pre-set threshold, the stove goes into the ignition mode and the message "FIRE PRESENT or STABILISATION" appears on the display.

The speed of the fumes is fixed, the auger tube turns on for a fixed time and the glow plug is turned off. Any problem during this phase will cause the control board to stop and the stove to go into error state.

Stove operational

After the temperature of the fumes has reached and exceeded a given value and has maintained it for at least a predetermined time, the stove goes into work mode which is the normal working mode. The upper display shows the time and the room temperature and the lower one the set heat output and the heat output in which the stove is found. The heat output can be set by pressing the P2 key while the room temperature can be set by pressing the P1 button. If the fume temperature reaches a certain set threshold, the air exchanger fan turns on. During this phase, the stove cleans the burn pot. The words "CLEAN FIRE PIT" or "PUL-BRACIERE" scroll on the display, the auger is on (auger LED on) and the exhaust blower on. Once the set period of time has elapsed, the stove goes back to the working mode.

Changing set heat output

During normal operation of the stove (WORKING), heat output can be changed by using the P2 button. Press P2 button again to increase the heat output and P1 button to decrease it. The display will show the set heat output. Do not press any button for 5 seconds or press P3 button to exit the setting mode.

Changing set room temperature

Press P1 button to change the set room temperature. The display shows the set room temperature (SET temperature value). Press P1 and P2 buttons to decrease or increase, respectively, the temperature value. The value is saved after approx. 5 seconds and the display goes back to normal. Otherwise, press P3 to exit.

Loading pellets into the tank during operation (ONLY MODELS WITH TANK SAFETY)

During operation of the stove, it is possible to load pellets into the tank. During this operation, the auger deactivates and a safety sound will activate, indicating that the tank door is open. You have 90 seconds before refueling and closing the door. After this time, the stove enters the DEPRESSION / PRESSURE SWITCH alarm. Reset the alarm and, once the Final Cleaning time has elapsed, turn the stove back on.

External thermostat/chrono-thermostat use

If an external room thermostat is to be used, make the connection to the TERM terminals.

- External thermostat
- External chrono-thermostat

The stove external thermostat is enabled when the contact is closed with stove on.

Room temperature reaches the set value (SET temperature)

When the set room temperature value is reached, the stove heat output is automatically set to the minimum value. In these conditions the display shows the message "MODULATION" or "MODULA". If room temperature falls below the set value (Set temperature value), the stove will go back to the "Work" mode and to the previously set heat output (Set heat output). If there is an external thermostat and the room temperature has been set to T-e, if the thermostat is open it will begin modulation and if closed, it will return to the heat output set.

Stand-by

When enabled in the menu, the Stand-by function allows the stove to be switched off after complying with the following conditions. It is enabled if, for a certain time, the room temperature is higher than the set temperature (Room set) plus a pre-set temperature delta. The words "OK ST-BY / GO STAND-BY" appear on the display. At the end of the given time, the message "WAIT FOR COOLING" appears on the display. In this state, the stove has an auger tube closed (auger tube off) and the heat exchanger switches off. When the fume temperature reaches a given threshold, the stove enters stand-by mode and the words "Stand-By / STOP ECO TEMP OK / ATTESA RICHIESTA" scroll. The auger, heat exchanger and exhaust blower are all switched off. The stove restarts if the room temperature falls below the set temperature (Room set) minus the threshold given by the temperature delta.

Stove switch off

Hold P3 button down to switch off the stove. The message "SHUTDOWN" or "PUL FINALE" appears on the display. The auger tube motor stops (the auger tube LED is off) and the exhaust blower speed is pre-set. The fan of the exchanger (exchanger LED on) remains active until the fume temperature falls below a pre-set value. After a certain time, if the temperature of the fumes is below a given threshold, the stove switches off, displaying the message "SPENTO" or "OFF".

Particular characteristics of SP4 STOVES

This type of stove switches off automatically every 8 hours of both continuous and staggered operation, regardless of the settings entered in CHRONO SET, daily, weekly and weekend programming. The stove is turned off to clean the burn pot, the display will show the message (CLEAN BURN POT) and after cleaning manually, the stove can be turned on once more. Reset by pressing and holding P3. The internal timer will automatically reset to zero until another 8 hours of operation is reached.

Particular characteristics of PELLET STOVES WITHOUT OVEN

The heat outputs are regulated in this way:

PTN1, PTN2, PTN3, PTN4, PTN5: heat outputs with ventilation. PT-1, PT-2, PT-3, PT-4, PT-5: heat outputs without ventilation. If during the summer it is necessary to cook or use for whatever reason the stove you can use the PT heat outputs such that the ventilation does not heat the environment.

Particular characteristics of PELLET STOVES WITH OVEN

USING THE OVEN

Heat outputs are set as follows:

P1, P2, P3, P4, P5, OVEN. Using heat output ratings from P1 to P5, the stove works as a classic stove: predefined heat output and room ventilation. Pressing button 1 changes the room temperature. Using OVEN mode, the stove works depending on the oven temperature. As can be seen, there is a probe inside the oven that regulates its temperature inside. The heat output of the stove is automatic, i.e., depending on the temperature of the oven, it will independently choose the heat output so as to keep a constant temperature inside the oven. The oven temperature can be set by pressing button 1 on the display only and exclusively in the OVEN function.

If the oven temperature exceeds the set temperature, room ventilation will bring the temperature values to the same level.

USING THE TIMER

When TIMER OVEN mode is selected, press the heat output button (P2) and then the ON/OFF button. A minute timer (default 60 minutes) is then shown, which allows the time to be changed using the (P1) and (P2) buttons, which can be confirmed using the ON/OFF button. After the set time has elapsed, the board buzzer sounds for 1 minute at a rate of 2 acoustical sounds per second.

REMOTE CONTROL IR (IF INCLUDED OR OPTIONALLY SUPPLIED)

The control panel of the stove has been set up to receive a number of commands via remote control.

- On/off command: pressing the two buttons marked "1" and "6" simultaneously switches the stove on or off.
- Temperature adjustment: during normal working mode, pressing button "2" and then buttons "1" and "2", marked with a thermometer, sets the desired temperature.
- Heat output adjustment: during normal working mode, pressing buttons "5" and "6" marked with a flame, sets one of the heat output levels of the stove.



2.3 ALARMS

In the event that an operating fault occurs, the board intervenes and signals the occurrence of an irregularity, switching on the alarm LED (alarm LED on) and emitting acoustic signals. The possible alarm messages are listed below:

Display shows	Cause
POWER OUTAGE ALARM	Absence of mains voltage
FUME PROBE ALARM	Fume probe faulty
HOT FUMES / FUMES TEMP. ALARM	Fume overheating
ALARM NO ENCODER / EXTRACT.-FAULTY / FUME EXTRACT.	Exhaust blower fault, not working
ALARM IGNITION FAILED / FAILED IGNIT. / NO IGNIT.	Stove does not ignite
PELLET VERIFICATION ALARM / NO PELLETS / PELLETS DEPLETED	Shutting down due to insufficient pellets
THERMAL SAFETY ALARM/ THERMOSTAT	Safety thermostat activated
NO DEPRESSION ALARM / PRESSURE SWITCH	Depressor activated
AUGER SAFETY ALARM	The auger tube turns continuously
INSUFFICIENT DRAW ALARM	Burn pot or air extraction pipe obstructed
CLEANER FAULT ALARM	Burn pot cleaner is blocked/Firebox door not shut correctly
AUGER TUBE ENCODER ALARM	The board does not read the auger tube encoder. No connection
AUGER TRIAC ALARM	The auger tube turns continuously
WATER PROBE ALARM	Water probe broken or short-circuited
HOT WATER ALARM	Stove water maximum threshold exceeded
WATER PRESSURE ALARM	Water pressure too low or too high
AIR PROBE ALARM	Air probe broken or short-circuited
TURBULATOR FAULT ALARM	The mechanism of the Turbulators is blocked

In case of alarm, the stove is immediately switched off.

Alarm status is reached after a given time, EXCEPT BLACK-OUT ALARM, and can be reset by prolonged pressure on ON/OFF. Whenever an alarm is cleared, the stove starts a switching-off phase for safety reasons. The alarm LED (alarm LED on) will remain on and the buzzer, if enabled, will sound intermittently during the entire alarm phase. Should the alarm not be cleared, the stove will in any case be switched off and the alarm message will remain on the display.

Black-out Alarm

If a power failure occurs for a certain period of time, the device will go into a BLACK-OUT alarm when the power comes back on. It is necessary to wait for the stove to cool down and then turn it back on.

Ignition Failed Alarm The alarm is triggered in the event of ignition phase fault. This happens if after a pre-set time, the temperature of the fumes does not exceed the threshold set by parameters.	⚠ ATTENTION Clean the brazier of the unburnt pellets.
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Safety thermostat

If the general safety thermostat detects a water temperature exceeding the trigger threshold, it immediately switches off the auger tube (to which it is connected in series), while the controller acquires this change in status. The THERMIC SEC. message is displayed and the system is shut down. Unscrew the black cap on the back of the stove and press the button to reset the contact.

Negative pressure alarm

This alarm occurs if:

- The flue pipe is non-compliant: the pipe must keep the minimum pressure in Pascals as required by the manufacturer (see TECHNICAL DATA) at both minimum and maximum heat output.
- The flue pipe or combustion air intake is obstructed.
- The combustion chamber door and/or pallet hopper door are open.
- Excessive dirt inside fume circulation area: empty the ash that is deposited in the part adjacent to the ash drawer compartment.

SERVICE MESSAGE

The stove will display the message SERVICE (or SER) during operation depending on the number of hours of operation. The wording does not lock operation of the stove, but non-routine maintenance will be required by an authorised technician, who will reset the service hours.

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The data and characteristics indicated do not bind , which reserves the right to make any changes deemed appropriate without obligation of notice or replacement.

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