

INSTRUCTION MANUAL

6 BUTTON LCD DISPLAY

INSTALLATION AND USE



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N.B.: THE INSTRUCTION BOOKLET CAN BE DOWNLOADED FROM OUR WEBSITE www.evacalor.com

ENGLISH

01.1 FLUE PIPE CHARACTERISTICS

PELLET STOVE CAN 14 KW (15) SPV-M13	
Chimney flue draught	10 Pa
Fume temperature	244 °C
Maximum flue gas flow rate	8.7 g/s

PELLET STOVE SLIM CAN 9.3 KW (10.5) SPCS9	
Chimney flue draught	12 Pa
Fume temperature	206 °C
Maximum flue gas flow rate	5.5 g/s

PELLET STOVE CAN 7,5 KW (9) SPCA7,5	
Chimney flue draught	10 Pa
Fume temperature	217 °C
Maximum flue gas flow rate	7.4 g/s

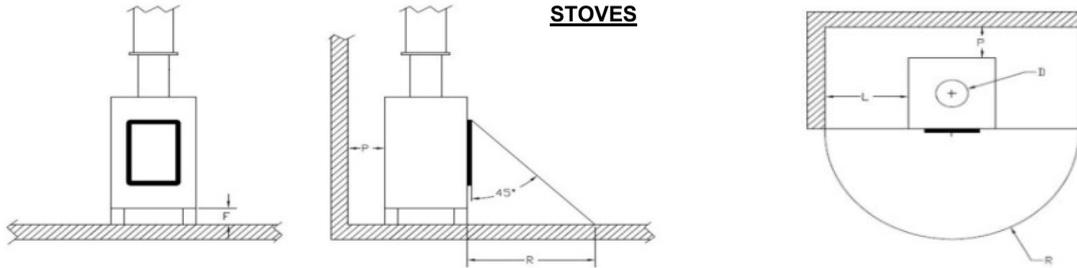
PELLET STOVE CAN 8 KW (9.3) SPSC8C	
Chimney flue draught	11 Pa
Fume temperature	182 °C
Maximum flue gas flow rate	6.1 g/s

INSERT 9.5 KW (11) IP9.5	
Chimney flue draught	12 Pa
Fume temperature	173 °C
Maximum flue gas flow rate	8.3 g/s

PELLET STOVE 11.5 KW (13.5) SPV-M11S	
Chimney flue draught	11 Pa
Fume temperature	207 °C
Maximum flue gas flow rate	8 g/s

02. INSTALLATION WARNINGS

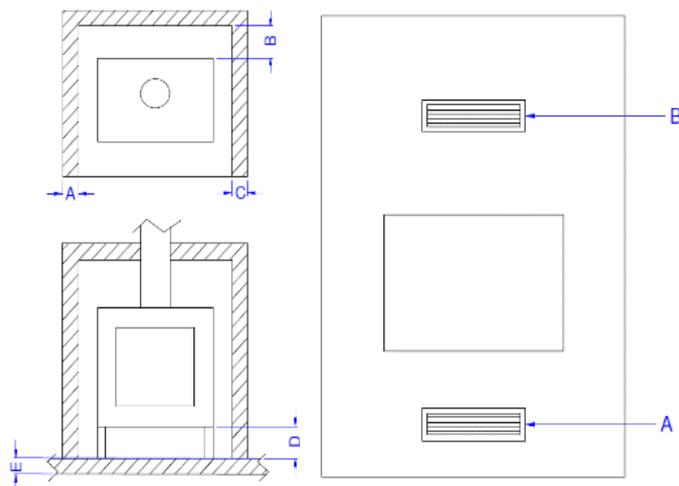
- If the stove is to be installed in rooms where it is surrounded by combustible materials (e.g. furniture, wood cladding, etc.), the following minimum clearances must be complied with:



FLAMMABLE	NON FLAMMABLE	FLAMMABLE	NON FLAMMABLE
PELLET STOVE CAN 14 KW (15) SPV-M13	PELLET STOVE CAN 14 KW (15) SPV-M13	PELLET STOVE SLIM CAN 9.3 KW (10.5) SPCS9	PELLET STOVE SLIM CAN 9.3 KW (10.5) SPCS9
REAR WALL P = 200 mm	REAR WALL P = 200 mm	REAR WALL P = 50 mm	REAR WALL P = 50 mm
SIDE WALL L = 300 mm	SIDE WALL L = 200 mm	SIDE WALL L = 200 mm	SIDE WALL L = 150 mm
FLOOR F = - mm	FLOOR F = - mm	FLOOR F = - mm	FLOOR F = - mm
FRONT R = 1000 mm	FRONT R = 1000 mm	FRONT R = 1000 mm	FRONT R = 1000 mm
PELLET STOVE CAN 7.5 KW (9) SPCA7.5	PELLET STOVE CAN 7.5 KW (9) SPCA7.5	PELLET STOVE 11 KW (13.5) SPV-M11S	PELLET STOVE 11 KW (13.5) SPV-M11S
REAR WALL P = 250 mm	REAR WALL P = 200 mm	REAR WALL P = 200 mm	REAR WALL P = 100 mm
SIDE WALL L = 250 mm	SIDE WALL L = 200 mm	SIDE WALL L = 300 mm	SIDE WALL L = 150 mm
FLOOR F = - mm	FLOOR F = - mm	FLOOR F = - mm	FLOOR F = - mm
FRONT R = 1000 mm	FRONT R = 1000 mm	FRONT R = 100 mm	FRONT R = 1000 mm

DUCTED PELLET INSERTS

INSERT 9.5 KW (11) IP9.5	
REAR	100
LATERAL	100
FRONT	1500
FLOOR	50
A cm²	500
B cm²	500



AIRTIGHT STOVE ONLY

This stove is an air-tight stove. If properly connected by means of a suction tube, these stoves draw the combustion air and the air necessary for glass cleaning directly from outside and not from the room where they are installed, preserving the oxygen in the room. Using coaxial tubes the air will be pre-warmed contributing to improved combustion and lower emissions into the atmosphere. Ideal for passive houses, they offer best comfort at the lowest cost. The stove works even if not connected to the external air intake.

3. INSTALLATION

03.1 PELLET STOVES

IMPORTANT: 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



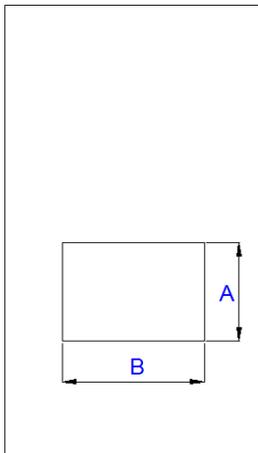
03.2 PELLET INSERT

BEFORE CONNECTION TO THE FLUE PIPE, IN ORDER TO GUARANTEE CORRECT EFFICIENCY OF THE STOVE, IT IS NECESSARY TO ENSURE THE FOLLOWING TYPES OF INSTALLATION:

INSERT 9.5 KW (11) IP9.5

If present, correctly insulate the beam above the insert. Any extraordinary maintenance operations shall be carried out by authorised staff, with the insert switched off, after slightly lifting its front side and pulling it out.

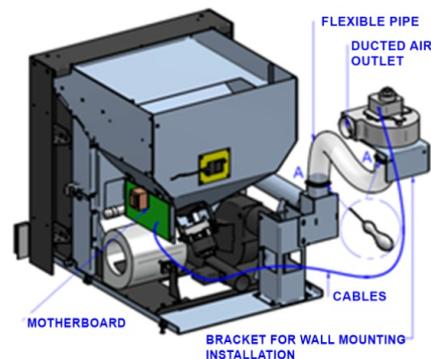
Pellet loading: remove the top drawer and pour in the pellets. This operation can also be performed while the insert is running.



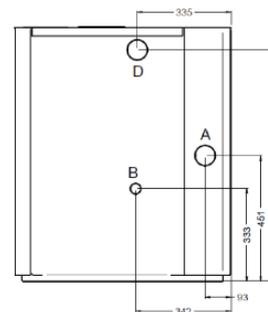
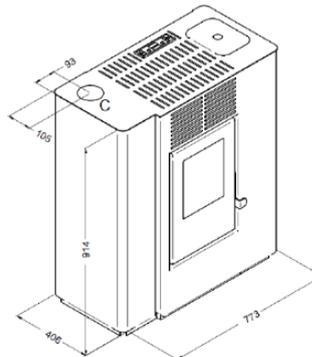
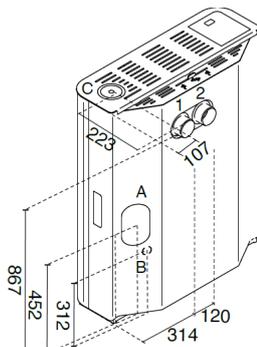
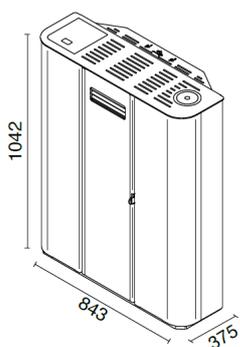
	LARGE GLASS INSERT 11 KW	SMALL GLASS INSERT 11 KW
A (cm)	63.5	63.5
B (cm)	89.5	62.5

Ducting

Devices that can be equipped with ducting are the 11KW non-removable inserts for loading. After installing the insert, secure the bracket with the second blower to the wall in a comfortable position and if possible, not above the flexible pipe supplied with the product. Carefully tighten the clamps and connect the blower to another flexible pipe to channel the air into another room.



03.3 SLIM DUCTED



A = Ø 80 mm Scarico fumi (Ø 130 mm tubo coassiale) Flue (Ø 130 mm coaxial tube) / Cheminée (Ø 130 mm tubes coaxiaux) / Rauchabzug (Ø 130 mm koaxialer Rohr) / Evacuación de humos (Ø 130 mm tubos coaxiales) / Descarga de fumos (Ø 130 mm tubos coaxiais)
 B = Ø 40 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Ar de combustão
 C = Ø 80 mm Scarico fumi posteriore / Rear fume outlet / Évacuation arrière des fumées / Hinterer Rauchabzug / Salida de fumos posterior / Descarga de fumos posterior
 1-2 = Ø 80 mm Aria canalizzata / Ducted air / Air pulsé / Luftkanalsystem / Aire canalizado / Kit opcional de ar canalizado

A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
 B = Ø 40 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje
 C = Ø 80 mm Scarico fumi superiore / Top Flue outlet / Sortie de Haut de Fumée / Top Abgasutzen / Salida humos superior / Izpuh dimnih plinov
 D = Ø 80 mm Aria canalizzata / Ducted air / Air pulse / Luftkanalsystem / Aire canalizado / Kanaliziran zrak

IR Remote Control (OPTIONAL)

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

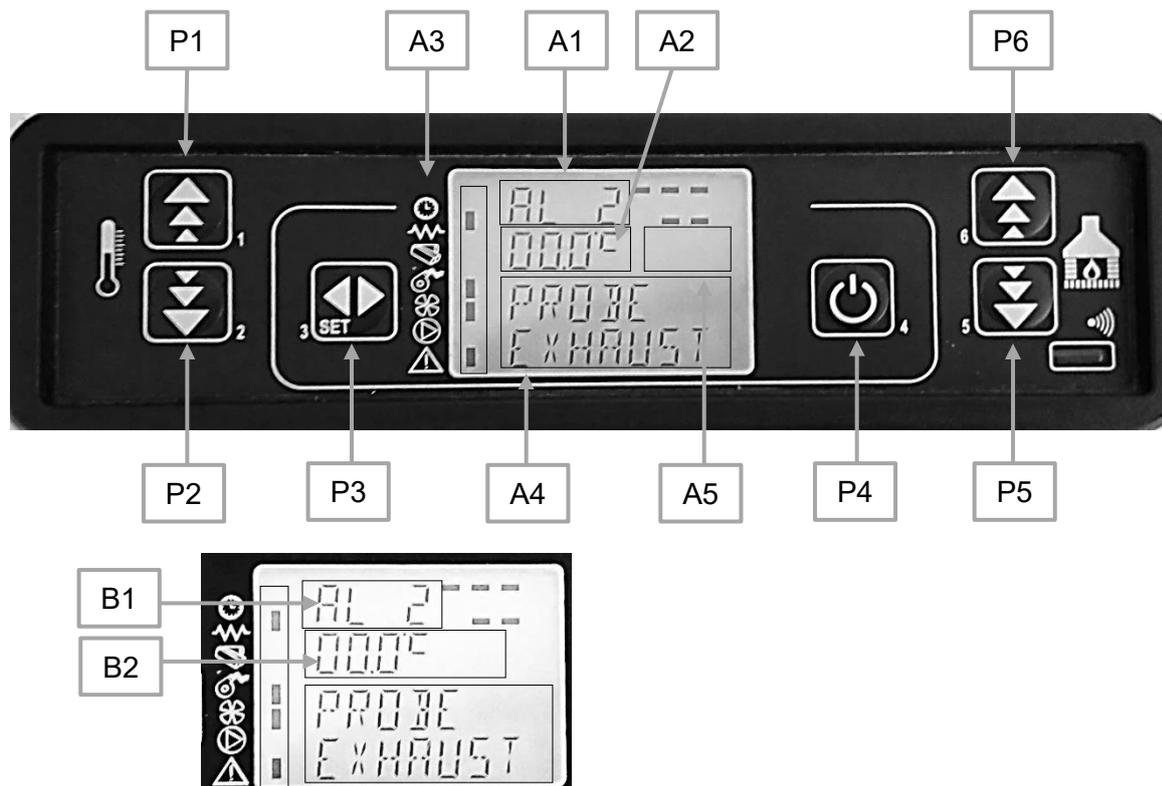
- On/off command: pressing the two buttons marked "1" and "6" simultaneously switches the stove on or off.
- Heat output adjustment: during normal working mode, pressing buttons "5" and "6" marked with a flame, sets one of the heat output levels of the stove.
- Temperature adjustment: during normal working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



**05. ELECTRONICS WITH 6 BUTTON LCD DISPLAY
(Pellet stove)**

05.1 CONSOLE

Console



The control panel shows the information concerning the stove status. Several types of data can be displayed and the settings available according to the access level can be modified by entering the menu. Depending on the selected mode and on their position on the display, the data visualised may acquire different meanings.

PANEL DESCRIPTION

- (A1) CLOCK
- (A2) ROOM TEMPERATURE
- (A3) STATUS (**Figure 1**)
- (A4) MESSAGING
- (A5) HEAT OUTPUT

Figure 1 describes the meaning of the status indicators on the left side of the display.

Programming

When the LED is on, the component corresponding to **Figure 1** is active.

Figure 1 describes the arrangement of the messages when programming or setting the operating parameters. In particular:

1. The **(B1)** input area displays the entered programming values.
2. The **(B2)** level area displays the current menu, the room temperature or heat output setting



Figure 1

BUTTON (P1) - Temperature increase:

When in programming mode, use this button to modify/increase the selected menu value. When in WORK/OFF mode, use this button to increase the room thermostat temperature value.

BUTTON (P2) - Temperature decrease:

When in programming mode, use this button to modify/decrease the selected menu value. When in WORK/OFF mode, use this button to decrease the room thermostat temperature value.

BUTTON (P3) - Set/menu:

The button allows access to user and technical parameters menu. After entering the menu, use this button to access the next sub-menu or set the value and move to the next menu item when in programming mode.

BUTTON (P4) - ON/OFF release:

Hold this button down for two seconds to manually switch the stove on or off respectively depending on its initial status i.e. OFF or START. Should have any alarm blocked the stove, press this button to unlock it and subsequently switch it off.

After entering the menu or during the programming phase, use this button to access the upper menu level. Any changes are automatically saved.

BUTTON (P5) - Heat output decrease:

When in WORK mode, use this button to decrease the heat output value. In menu mode, this switches to the next menu item.

BUTTON (P6) - Heat output increase:

When in WORK mode, use this button to modify the exchanger speed. In menu mode, this switches to the preceding menu item.

05.2 MENU

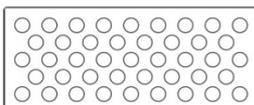
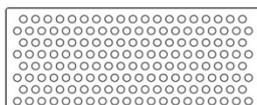
Press P3 (MENU/SET) to access the menu.

It includes several items and levels to access settings and control board programming.

The menu items providing access to the technical setting are protected by access code.

ONLY STOVES WITH DUEL FUEL**Menu M1 – SELECT FUEL**

This setting allows the type of fuel to PELLETT or OLIVE POMACE to be set (see below)

PELLET BURN POT BASE**OLIVE POMACE BURN POT BASE**

Important: do not to exchange the two different fuel type burn pot bases:

- choose the load option in the main menu.
 - Load type 1 = PELLETT (PELLET LOAD)
 - Load type 2 = OLIVE POMACE (OLIVE POMACE LOAD)

DUCTED STOVES**Menu M1 – ADJUST BLOWERS**

This setting allows the fan speed of the ducting to be set

Menu M2 – SET CLOCK

Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the internal time clock a 3/5 year-long life.

Menu M3 – SET CHRONO**Sub-menu M3 – 1 CHRONO ENABLE**

The programmable thermostat functions can be disabled and enabled.

Sub-menu M3 – 2 PROGRAM DAY

The daily programmable thermostat functions can be enabled, disabled and set.

It is possible to set two on/off times defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control:

Selection	Meaning	Available values
START 1	switching-on time	time - OFF
STOP 1	switching-off time	time - OFF
START 2	switching-on time	time - OFF
STOP 2	switching-off time	time - OFF

Sub-menu M3 – 3 PROGRAM WEEK

The weekly programmable thermostat functions can be enabled, disabled and set.

The weekly programmer has 4 independent programs whose final effect involves the combination of the 4 individual programs. The weekly programmer can be enabled or disabled (ON/OFF). Moreover, if the time is set to OFF, the time clock ignores the corresponding command.

Caution: carry out the programming carefully in order to prevent overlapping of switching ON and/or OFF times of different programmes on the same day.

Sub-menu M3 – 4 PROGRAM WEEK-END

The programmable thermostat functions can be enabled, disabled and set for the week-end (days 6 and 7, or Saturday and Sunday).

RECOMMENDATION: in order to prevent confusion and unwanted start-ups or shut-downs, enable only one programme at a time if what is required is not exactly known.

Disable (OFF) the DAILY PROGRAMME if the weekly is required. Always keep the WEEK-END PROGRAMME disable (OFF) when using the weekly one in programmes 1, 2, 3 and 4.

Enable (ON) the WEEK-END PROGRAMME only after disabling (OFF) the WEEKLY PROGRAMME.

Menu M4 – SELECT LANGUAGE

Use this command to select one of the languages available.

Menu M5 - STAND-BY MODE

If "STAND-BY" mode is selected, the stove switches off after a period of time, set by Pr44, during which the room temperature has remained at a value higher than the SET temperature.

Only if the following condition occurs it is then possible to switch the stove back on:

TSET < (Troom - Pr43)

Menu M6 – BUZZER MODE

Set it to "OFF" to disable the buzzer.

Menu M7 – INITIAL LOAD

Use this function to load pellets for a period of 90 seconds when the stove is switched off and cold. Press P1 button to start and P4 button to stop.

Menu M8 - STOVE STATE

This function displays the current status of all the devices connected to the stove.

Menu M9 – TECHNICA SETTING

This menu item is reserved for the stove installer. After entering the ACCESS KEY using buttons P2 (decrease) and P1 (increase), the various operating parameters of the stove can be set.

05.3 USER FUNCTIONS

Standard functioning of a control board properly installed on a forced air pellet stove is described below with reference to the functions available to users. The indications listed below refer to a control board fitted with programmable chrono-thermostat.

Stove ignition

Hold down P4 for a few seconds to switch on the stove. The display shows that the stove is START.

Start-up phase

The stove performs all the steps of the start-up phase according to the parameters concerning its levels and times.

Ignition fault

If the fume temperature has not reached the minimum permitted value after a certain time with a rate of 2°C/min., the stove goes into the alarm status FAILED IGNITION. Check that the hopper contains pellets.

Stove operational

If no issues have occurred at the end of the start-up phase, the stove enters normal WORK mode.

Changing set room temperature

Press P1 and P2 buttons to change the room temperature. The display shows the current SET temperature value.

Changing the ducting ventilation

To change the ducting speed enter menu 1 and adjust the ventilation speed. The setting goes from 0 to 5 and Automatic. By setting the speed to 1,2,3,4,or 5 the ducting will always operate at the same speed even when the stove heat output is changed. By setting to Automatic, the ducting will operate according to the heat output of the stove. Setting it to 0 will disable the ducting. For a number of heat output 4 and 5 models, the ducting will be enabled to dispose of any excess heat. Change in fan speed is not instantaneous.

External thermostat/chrono-thermostat use

If an external room thermostat is to be used, make the connection to the TERM / TERM OPT terminals, which depends on the type of board.

- **external thermostat:** carry out a temperature SET of 7°C or T-E, where provided, in the stove.
- **external chrono-thermostat:** carry out a temperature SET in the stove equal to 7°C or T-E, where provided and disable (OFF) the chrono.

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

Use of external thermostat for ducting control (only some models)

A thermostat can be connected to control the ducting. This operation may only be performed by authorised personnel. Use a 2-pole cable with everyday double insulation. Connect the two poles to the connector on the circuit board on the N.H20 connector for ducting 1 and on the N.PEL. connector for ducting 2. Enabling the two display thermostats is not required. When the thermostat no longer requires ducting, it will switch off.

Room temperature reaches the set value (SET temperature)

When the room temperature has reached its set value, heat output is automatically brought to its minimum value, (MODULATI) status. If (STAND-BY MODE) mode has been enabled, the stove will shut down with a delay equal to a preset time. After reaching the set temperature. Re-ignition occurs after occurrence of the following condition: Tambient > (TSET + Pr43)

Cleaning the burn pot

When the stove is in the WORK mode, at intervals set by parameter Pr03, "BURN POT CLEANING" mode is enabled for the period determined by a pre-set parameter.

Stove switch off

Hold down P4 button for approx. 2 seconds to switch off the stove. The Auger tube stops immediately and the exhaust blower reaches its maximum speed value. The FINAL CLEANING phase is carried out. At the end of the period of time set by Pr39, when the fume temperature has reached a value below Pr13 parameter, the exhaust blower stops.

Stove re-ignition

It will be possible to switch the stove back on only at the end of the safety period of time set by Pr38 and if the fume temperature has reached a value below Pr13.

WHAT HAPPENS IF...:

Pellet ignition failure

If ignition fails, the message (FAILED IGNITION) is displayed.

Power cut (BLACK-OUT)

When the power is resumed after an outage, the stove enters the FINAL CLEANING phase and waits until the fume temperature reaches a value below Pr13.

If the BLACK-OUT duration is greater than T, the stove switches off

05.4 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.

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

EXCEPT FOR THE BLACK-OUT ALARM, the alarm status is reached at the end of the set period of time and can be cleared by holding P3 button down. 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.

Below, we outline the details of these alarms (**ONLY IN DUEL FUEL MODELS**):

ACTIVE ALARM ALARM FLOW – Obstruction alarm

This occurs when the same probe, which triggers the alarm, is dirty or the chimney contains an obstruction.

ACTIVE ALARM PROBE EXHAUST – Fume temperature probe alarm

The alarm is triggered when the fume temperature probe is not working properly or is disconnected. The stove switches off when the alarm is active.

ACTIVE ALARM HOT EXHAUST – Fume over-temperature alarm

This occurs if the fume probe detects a temperature greater than 220°C.

The stove switching-off phase starts immediately.

ACTIVE ALARM NO LIGHTIN- – Ignition fault alarm

The alarm is triggered in the event of ignition phase fault. The stove switching-off phase starts immediately.

ACTIVE ALARM NO PELLETT – Shut-down alarm during working phase

If the flame goes out during the working phase and the fume temperature falls below the minimum working threshold (parameter Pr13), the alarm is activated. The shut-down procedure is also immediately activated.

ACTIVE ALARM FAILURE DEPRESS – Auger safety pressure switch alarm

If the pressure switch detects a value below the trigger threshold, it immediately switches off the auger tube (to which it is connected in series) while the control board acquires this change in status via the AL2 terminal in CN4. The message “ACTIVE ALARM NO NEGATIVE PRESSURE” is displayed and the system is stopped.

ACTIVE ALARM WAIT COOLING – mains power failure

ACTIVE ALARM SAFETY THERMAL – General thermostat alarm

If the general safety thermostat detects a value exceeding the trigger threshold, it immediately switches off the auger tube (to which it is connected in series), while the control board acquires this change in status via the AL1 terminal in CN4. The message (ACTIVE ALARM SAFETY THERMAL) is displayed and the system is stopped. Unscrew the black cap on the back of the stove and press the button to reset the contact.



ACTIVE ALARM FAN FAILURE – Fume extraction fan fault alarm

In the event the fume extraction fan fails, the stove switches off and the message ACTIVE ALARM FAN FAILURE is displayed. The stove switching-off phase starts immediately.

Below, we outline the details of these alarms (**DUCTED STOVES**):

AL1 BLACK OUT – Power outage alarm

Power outage may occur with the stove in working mode. When restarting, if the outage period is less than 20 seconds, the stove restarts in **WORK** mode, otherwise an alarm will sound. The display shows the message “AL1 BLACK OUT” and the stove switches off.

AL2 FUME PROBE – Fume temperature probe alarm

The alarm is triggered in case of faulty fume probe. The stove goes into alarm status and the alarm LED illuminates (LED alarm on). The stove will show the wording “AL2 FUME PROBE” on the display and will switch off.

AL3 HOT FUME – Fume over-temperature alarm

This occurs if the fume probe detects a temperature greater than a fixed set value that cannot be changed using a parameter. The display shows the message “AL3 HOT FUME” and the stove switches off.

AL4 FAN FAILURE – Fume encoder fault alarm

The alarm is triggered in case of exhaust blower failure. The stove will go into alarm status and the message “AL4 FAN FAILURE” will appear on the display.

AL5 FAILED IGNITION – Ignition fault alarm

The alarm is triggered in the event of ignition phase fault. This occurs if, after a given time, the fume temperature does not exceed a given threshold. The display shows “AL5 FAILED IGNITION” and the stove goes into alarm status.

AL6 NO PELLETS – No pellet alarm

This occurs when the fume temperature falls below a given parameter during operation. The display shows (AL6 NO PELLETS) and the stove goes into alarm status.

AL7 THERMAL SAFETY – THERMAL safety over-temperature alarm

The alarm is triggered whenever the general safety thermostat detects a temperature exceeding the trigger threshold. The thermostat trips and switches off the auger as it is placed in series with its power supply, and the controller trips by signalling alarm status (alarm LED on), showing “AL7 THERMAL SAFETY” on the display, and the stove switches off.

AL8 FAILURE DEPRESS – No negative pressure alarm

This occurs when the external pressure switch detects a pressure above the trigger threshold. The pressure switch intervenes by switching off the auger, being electrically connected in series, and the controller signals alarm status (alarm LED on) showing “AL8 FAILURE DEPRESS” on the display. The stove switches off.

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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