

# INSTRUCTION MANUAL

## 6 BUTTON DISPLAY

### INSTALLATION AND USE



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N.B.: THE INSTRUCTION BOOKLET CAN BE DOWNLOADED FROM OUR WEBSITE [www.evacalor.com](http://www.evacalor.com)

01.1 FLUE PIPE CHARACTERISTICS

INSERT 6.5 KW (7.5) IPGN	
Chimney flue draught	12 Pa
Fume temperature	195 °C
Maximum flue gas flow rate	5.6 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 8 KW (9) SPCT8	
Chimney flue draught	12 Pa
Fume temperature	214 °C
Maximum flue gas flow rate	6.1 g/s

PELLET STOVE 6.5 KW (7.5) SPIN7.5AT	
Chimney flue draught	11 Pa
Fume temperature	223 °C
Maximum flue gas flow rate	5.3 g/s

PELLET STOVE SLIM 9 KW (11) SPVM-9	
Chimney flue draught	10 Pa
Fume temperature	217 °C
Maximum flue gas flow rate	7.1 g/s

PELLET STOVE SLIM 6.5 KW (7.5) SSL6.5	
Chimney flue draught	11 Pa
Fume temperature	173 °C
Maximum flue gas flow rate	5.5 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

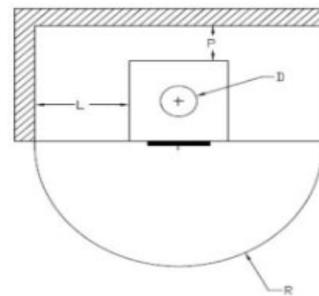
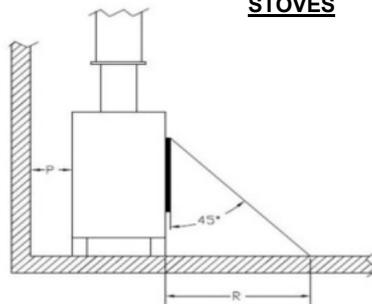
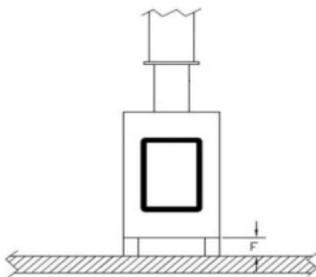
AIRTIGHT STOVE 6.5 KW (7.5) SPE6.5	
Chimney flue draught	10 Pa
Fume temperature	195 °C
Maximum flue gas flow rate	5.4 g/s

AIRTIGHT STOVE SLIM 8.5 KW (9.5) SPE8.5	
Chimney flue draught	12 Pa
Fume temperature	193 °C
Maximum flue gas flow rate	4.8 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:

STOVES



FLAMMABLE

PELLET STOVE 8 KW (9) SPCT8

REAR WALL P =	100 mm
SIDE WALL L =	250 mm
FLOOR F =	- mm
FRONT R =	1000 mm

NON FLAMMABLE

PELLET STOVE 8 KW (9) SPCT8

REAR WALL P =	100 mm
SIDE WALL L =	150 mm
FLOOR F =	- mm
FRONT R =	1000 mm

FLAMMABLE

PELLET STOVE 6.5 KW (7.5) SPIN7.5AT

REAR WALL P =	300- mm
SIDE WALL L =	150- mm
FLOOR F =	60- mm
FRONT R =	1000 mm

NON FLAMMABLE

PELLET STOVE 6.5 KW (7.5) SPIN7.5AT

REAR WALL P =	200- mm
SIDE WALL L =	100- mm
FLOOR F =	60- mm
FRONT R =	1000 mm

PELLET STOVE 11 KW (13.5) SPV-M11S

REAR WALL P =	200 mm
SIDE WALL L =	300 mm
FLOOR F =	- mm
FRONT R =	1000 mm

PELLET STOVE 11 KW (13.5) SPV-M11S

REAR WALL P =	200 mm
SIDE WALL L =	200 mm
FLOOR F =	- mm
FRONT R =	100 mm

PELLET STOVE SLIM 9 KW (11) SPVM-9

REAR WALL P =	100 mm
SIDE WALL L =	250 mm
FLOOR F =	- mm
FRONT R =	1000 mm

PELLET STOVE SLIM 9 KW (11) SPVM-9

REAR WALL P =	100 mm
SIDE WALL L =	150 mm
FLOOR F =	- mm
FRONT R =	1000 mm

PELLET STOVE SLIM 6.5 KW (7.5) SSL6.5

REAR WALL P =	200 mm
SIDE WALL L =	300 mm
FLOOR F =	- mm
FRONT R =	1000 mm

PELLET STOVE SLIM 6.5 KW (7.5) SSL6.5

REAR WALL P =	200 mm
SIDE WALL L =	200 mm
FLOOR F =	- mm
FRONT R =	100 mm

AIRTIGHT STOVE 6.5 KW (7.5) SPE6.5

REAR WALL P =	150 mm
SIDE WALL L =	200 mm
FLOOR F =	- mm
FRONT R =	1000 mm

AIRTIGHT STOVE 6.5 KW (7.5) SPE6.5

REAR WALL P =	100 mm
SIDE WALL L =	150 mm
FLOOR F =	- mm
FRONT R =	1000 mm

STOVE SLIM 8.5 KW (9.5) SPE8.5

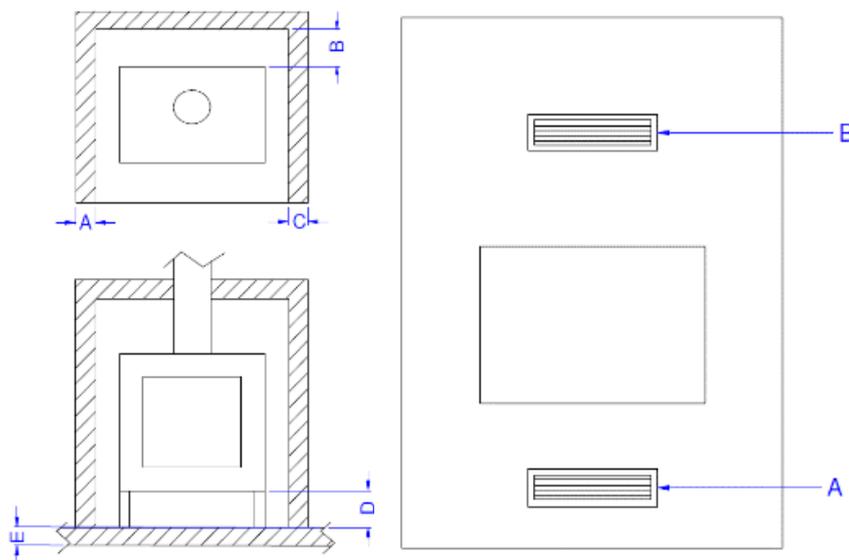
REAR WALL P =	50 mm
SIDE WALL L =	150 mm
FLOOR F =	- mm
FRONT R =	1000 mm

STOVE SLIM 8.5 KW (9.5) SPE8.5

REAR WALL P =	50 mm
SIDE WALL L =	50 mm
FLOOR F =	- mm
FRONT R =	1000 mm

## PELLET INSERTS

	INSERT 9.5 KW (11) IP9.5	INSERT 6.5 KW (7.5) IPGN
REAR B	100	180
LATERAL	100	180
FRONT	1500	1000
FLOOR D	50	10
A cm <sup>2</sup>	500	450
B cm <sup>2</sup>	500	450



### 03. 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:

##### 7.5 KW INSERTS

THE CHIMNEY MUST BE INSTALLED WITH 1 METRE OF Ø80MM PIPE CERTIFIED ACCORDING TO EN 1856-2.

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

##### 11 KW INSERT

THE CHIMNEY MUST BE INSTALLED WITH 1 METRE OF Ø80MM PIPE CERTIFIED ACCORDING TO EN 1856-2.

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

##### INSERT 11 KW WITH GUIDES – REMOVABLE FOR LOADING

After fixing the insert, lock the grids with the supplied screws and fasten the display.

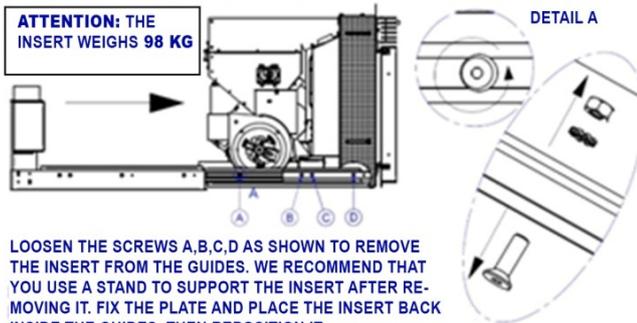
**Pellet loading:** the machine must be switched off and extracted to load pellets.

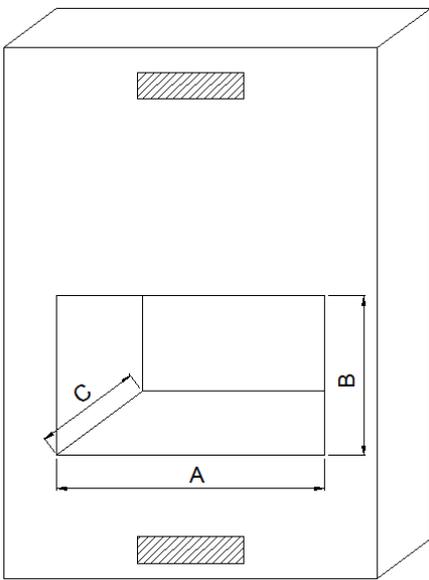
##### CAUTION:

the insert is equipped with an electrical safety device: when the insert is removed, the device switches off the power supply. The device **MUST** be turned off to load the pellets (OFF). By doing so, you will prevent any fumes inside the chamber from being released into the room.

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.

PULL OUT THE INSERT AND REMOVE IT FROM THE GUIDES





The minimum insert dimensions and openings for correct air circulation must be taken into account when installing to prevent the item from overheating. Minimum area measurements for natural air convection must be observed.

Air movement can also take place at the side or from the rear of the cladding. Openings must be protected by grilles or protective devices so as to prevent access to the electrical parts of the chimney or moving parts.

#### PROCEDURE FOR CORRECT INSTALLATION

mm	7.5 KW INSERT	7.5 KW INSERT H=49	11 KW INSERT STANDARD GLASS	11 KW INSERT – LARGE GLASS	11 KW INSERT REMOVABLE
A	580	580	620	895	635
B	530	500	635	635	555
C	470	470	700	700	670

Remove frames or any micro-perforated items and remove the insert from the base. Secure the base to a support surface or trestle (OPTIONAL). Carry out the connections to the chimney and the electrical connections. Replace the insert on the base ensuring that it is correctly connected to the fume duct. Reposition the frames or micro-perforated items and prepare the display installation.

#### 04. IR REMOTE CONTROL (IF INCLUDED OR SUPPLIED AS OPTIONAL)

##### IR REMOTE CONTROL (OPTIONAL)

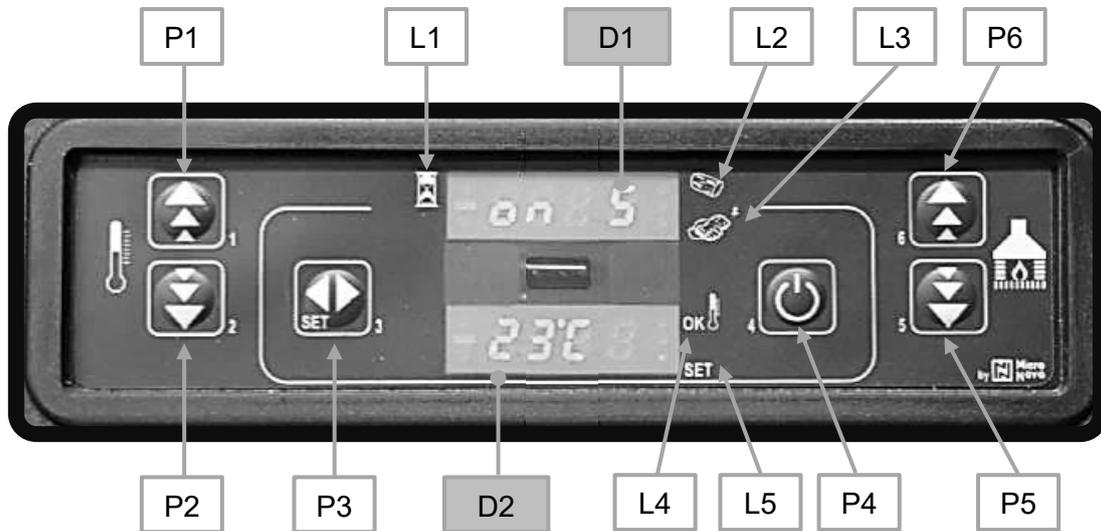
The control panel of the stove has been set up to receive a number of commands via remote control.

- 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.



#### 5. ELECTRONICS WITH N.100 6 BUTTON LED DISPLAY (Pellet Stove – Pellet insert)

##### 05.1 CONSOLE



##### Console

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

**Button (P1)** Increase room temperature

**Button (P2)** Decrease room temperature

**Button (P3)** Set / menu

**Button (P4)** ON/OFF

**Button (P5)** Decrease heat output

**Button (P6)** Increase heat output

**LED (L1)** Chrono enabled – CHRONO

**LED (L2)** Auger in motion – AUGER ON

**LED (L3)** Remote control reception – REMOTE CONTROL

**LED (L4)** Thermostat enabled – ROOM SET

**LED (L5)** Flashing during temperature set or in menus – SET

##### Display (D1):

It displays the detected room temperature and the time at start-up.

During working mode, it shows the heat output set by the user.

When modifying user/technician parameters, it shows the value of the parameter in question.

##### Display (D2):

It shows the board status during start-up phase.

During working mode, it shows the temperature set by the user.

When modifying user/technician parameters, it shows the label of the parameter in question.

**MENU**

Press button P3 to access the menu. This includes several items and levels to access settings and control board programming.

**Menu M1 – SET CLOCK**

Press SET (P3) once; the M1 SET CLOCK menu appears, confirm by pressing SET (P3) once, with the left arrows set the current day and press SET (P3); set the current hour and press SET (P3), set the minutes and press SET (P3); set the current day as a number and press SET (P3); set the current month as a number and press SET (P3), and set the current year as a number. To confirm and exit the M1 menu, press the ignition button once.

**Menu M2 – SET CHRONO****Sub-menu M2 – 1 – CHRONO ENABLE**

Press SET (P3) once, with the arrow (P5) go to M2: enter the menu by pressing SET (P3) once, the menu M2-1 appears, confirm with SET (P3) and with the arrow (P1), set ON to activate the general chrono, go back by pressing the ON-OFF button once, with the arrow (P5) choose the program to enable.

**Sub-menu M2 – 2 PROGRAM DAY**

Two fixed ON/OFF cycles for each day

**Sub-menu M2 – 3 WEEKLY PROGRAMME “PROGRAM END-SETT”**

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

**Sub-menu M2 – 4 WEEKEND PROGRAMME “PROGRAM END-SETT”**

Two ON/OFF cycles for Saturday and Sunday

**Setting a programme**

Enter the desired programme by pressing set (P3) once, the first parameter is to enable the programme itself, set it to ON by pressing the arrow (P1) (**CAUTION: ENABLE ONE PROGRAMME AT A TIME TO PREVENT ISSUES WITH THE CHRONO**) press SET (P3) to set the START time, with the arrows (P1) and (P2) set the desired ignition time; press SET (P3) to set the STOP time: with the arrows (P1) and (P2) set the switch-off time, valid only for the weekly program; now press SET to confirm the days, arrows (P5) and (P6) navigate between the days of the week and arrow (P1) sets ON or OFF. When the times and days have been set, press the ON-OFF button to confirm and exit the chrono until the initial screen is reached; if the times have been set correctly, a green LED will illuminate near the HOURGLASS on the left of the upper display.

**Menu M3 – LANGUAGE**

Use this command to select one of the languages available. To move to the next language press P1 (increase) to go back, press P2 (decrease) and to confirm press P4.

**Menu M4 – STAND-BY**

Use it to enable or disable the Stand-by mode. Once the M4 menu has been selected with the P3 button, press P1 or P2 to change the status from ON to OFF and vice versa. Refer to the section concerning the stand-by mode for more details on its functioning.

**Menu M5 – LOAD INITIAL**

This command is only available when the stove is **OFF** and allows the auger tube to be loaded the first time the stove is started when the pellet hopper is empty. After selecting the M5 menu, “P1 TO LOAD” will scroll on the display. Then press P1 (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 P4 button.

**Menu M6 – STATE STOVE**

After entering menu M6 by pressing P3 button, the status of a number of parameters with stove in working mode scrolls on the display. The table below contains an example of the scrolling values on the display including their meaning.

<i>Displayed status – Meaning</i>				
3.1" - Pellet loading auger status	52' - Time out	Toff - Thermostat status	106° - Flue gas temperature	1490 - Flue gas extraction speed

**Menu M7 – SET TECHNIC**

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

## 05.3 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 P4 button down for a few seconds to switch on the stove. The display will indicate that it has been switched on with the wording “START”.

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 the alarm status.

**Pellet loading**

After approximately 1 minute, the pellet loading phase begins and the message “LOAD PELLETT” 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 switches off (auger LED off), while the exhaust blower speed 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 fume temperature has reached and exceeded a pre-set threshold, the stove goes into the ignition mode and the message “FLAME LIGHT” appears on the display. The exhaust blower speed is fixed, the auger tube remains on for a determined period of time (auger tube LED flashing) and the glow plug is off (glow plug LED 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 buttons P5, P6 and the room temperature can be set by pressing buttons P1, P2. 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 message “CLEAN BRAZIER” appears on the display, the auger tube switches on (auger tube LED on), the exhaust blower is 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, the heat output can be changed by pressing buttons P5, P6. Press P6 button again to increase the heat output and P5 button to decrease it. The display will show the set heat output. Do not press any buttons for 5 seconds or press P4 button to exit the setting mode.

**Changing set room temperature**

Press P1 and P2 buttons to change the room temperature. The display shows the set room temperature (SET temperature value). Press P1 and P2 buttons to increase or decrease, respectively, the temperature value. The value is saved after approx. 5 seconds and the display goes back to normal. Otherwise, press P4 to exit. “Man” puts the stove into manual mode with a fixed heat output, or T-E to be chosen if an external thermostat is connected.

**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. During this phase, the display shows the message “MODULATE”. If the room temperature falls below the set temperature (Set temperature), the stove returns to “WORKING” 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 command 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 display shows "GO-STBY", followed by the remaining time in minutes. At the end of the given time, the display shows "ATTESA RAFFRED-". 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 scrolls the wording "STOP ECO TEMP OK". The auger tube is switched off (auger tube LED off), the heat exchanger is switched off, as is the exhaust blower. If the room temperature falls below the set temperature (Room set) minus the threshold given by the temperature delta, the stove switches on again.

### Stove switch off

Hold P4 button down to switch off the stove. The display shows the message (CLEANING FINAL). 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 (OFF).

### External thermostat/chrono-thermostat use

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

- **external thermostat:** carry out a temperature SET in the stove equal to T-E.
- **external chrono-thermostat:** carry out a temperature SET in the stove equal to T-E and disable (OFF) the chrono

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

## 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 POWER OUTAGE 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.

### AL1 BLAC-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 **WORKING** mode, otherwise an alarm will sound. The display shows the message "AL1 POWER OUTAGE" and the stove switches off.

### AL2 PROBE EXHAUST – 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 EXHAUST – 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 FUMES" 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 EXTRACTION FAULT" will appear on the display.

### AL5 NO LIGHTIN- – 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 IGNITION FAULT" and the stove goes into alarm status.

### AL6 NO FIRE – No pellet alarm

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

### AL7 SAFETY THERMAL – 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 NO NEG. PRESSURE" 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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