

# **INSTRUCTION MANUAL**

## **REMOTE CONTROL**

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## 01. FLUE PIPE

### 01.1 FLUE PIPE CHARACTERISTICS

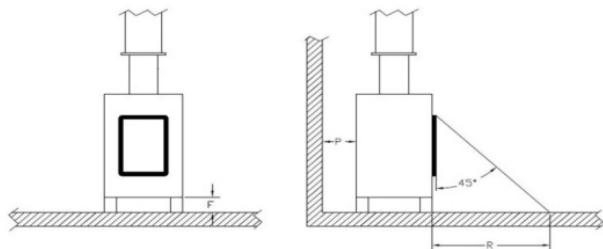
10.5 KW (12) ANGLE PELLETT STOVE	
Chimney flue draught	11 Pa
Fume temperature	204 °C
Maximum flue gas flow rate	7.8 g/s

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

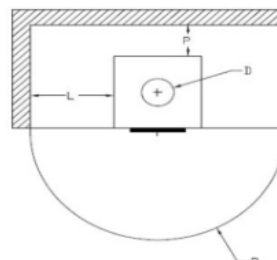
7 KW (8) SPE7 SLIM AIRTIGHT STOVE	
Chimney flue draught	11 Pa
Fume temperature	179 °C
Maximum flue gas flow rate	5.1 g/s

## 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 7 KW (8) SPE7 SLIM AIRTIGHT STOVE	
REAR WALL P =	50 mm
SIDE WALL L =	300 mm
FLOOR F =	- mm
FRONT R =	1000 mm

NON FLAMMABLE 7 KW (8) SPE7 SLIM AIRTIGHT STOVE	
REAR WALL P =	50 mm
SIDE WALL L =	200 mm
FLOOR F =	- mm
FRONT R =	100 mm

FLAMMABLE 10.5 KW (12) ANGLE PELLETT STOVE	
REAR WALL P =	- mm
SIDE WALL L =	- mm
FLOOR F =	- mm
FRONT R =	1000 mm

NON FLAMMABLE 10.5 KW (12) ANGLE PELLETT STOVE	
REAR WALL P =	- mm
SIDE WALL L =	mm
FLOOR F =	- mm
FRONT R =	1000 mm

8.5 KW (9.5) SPE8.5 SLIM AIRTIGHT STOVE	
REAR WALL P =	50 mm
SIDE WALL L =	150 mm
FLOOR F =	- mm
FRONT R =	1000 mm

8.5 KW (9.5) SPE8.5 SLIM AIRTIGHT STOVE	
REAR WALL P =	50 mm
SIDE WALL L =	50 mm
FLOOR F =	- mm
FRONT R =	1000 mm

### 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. Even if the stove is installed without the outdoor air intake, it will work in any case.

## 03. INSTALLATION

### 03.1 AIRTIGHT STOVES

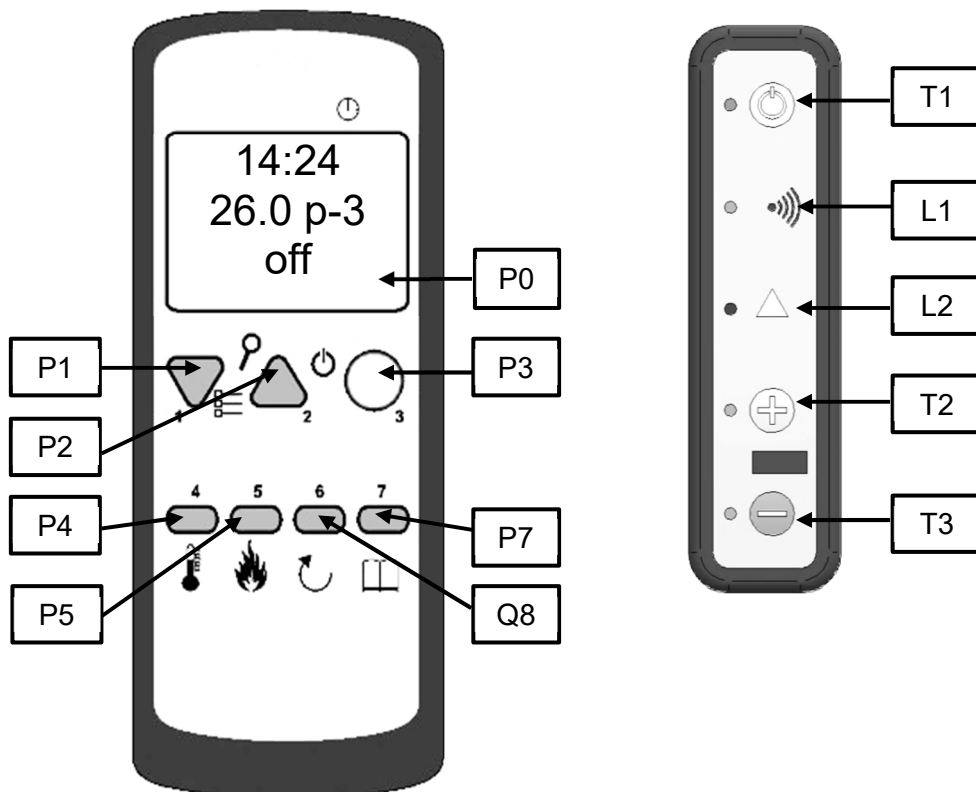
**IMPORTANT: THE LENGTH OF THE FUME DUCT MUST BE A MAXIMUM OF 6 METRES OF 80 mm DIAMETER TUBE AND EACH 90° BEND OR (T) CONNECTION MUST CORRESPOND TO 1 METRE OF TUBE**

TO GUARANTEE THE CORRECT OPERATION AND YIELD OF ALL OUR PELLETT 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

**THE STOVE DOES NOT WORK IF THE LID OF THE PELLETT HOPPER IS OPEN**



04.1 CONSOLE



CORRECT OPERATION AND CONTROL ADJUSTMENT DEVICES

The remote control displays information regarding the operating status of the stove. 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

**DISPLAY (P0)**

**BUTTON (P1) - Decrease:**

The button in programming mode modifies/decreases the selected menu value, in WORK/OFF mode it decreases the temperature value of the room thermostat or stove heat output.

**BUTTON (P2) - Increase:**

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

**Button P3 – 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. SWITCHED OFF or ON. Simply press to return to the previous menu until the home screen appears. If alarms have occurred which have caused the stove to lock, the button allows unlocking and subsequent passage to the OFF state.

**BUTTON (P4) - Ambient Temperature Set:**

When in WORK mode, the button allows to access the ambient temperature set. In menu mode, use this button to go back to the previous menu item or, in programming mode, to go back to the previous sub-menu item. Any change is automatically saved.

**BUTTON (P5) - Power Set:**

When in WORK mode, the button allows to access the power value. In menu mode, use this button to move to the next menu item or, in programming mode, to go back to the subsequent sub-menu item. Any change is automatically saved.

**BUTTON (P6) - Return:**

Used to return to the previous menu.

**BUTTON (P7) - Set/menu:**

This button allows access to the 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.

**KEY (T1) ON/OFF:** Manually turns the stove on and off

**KEY (T2) +:** power increase

**KEY (T3) -:** power decrease

**LED (L1)** Confirms signal reception

**LED (L2)** indicates the alarm status of the stove. Reset with ON/OFF button

04.2 MENU

Press the P7 key to access the menu. The menu 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.

**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 ENABLE CHRONO**

The programmable thermostat functions can be disabled and enabled.

### Sub-menu M3 – 2 CHRONO DAY

The daily programmable chrono-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:

setting	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

### M3 - 3 CRONO WEEKLY

The weekly programmable chrono-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. Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

**Caution:** set carefully to prevent overlapping of different activation times of different programmes on the same day.

### Sub-menu M3 - 4 PROGRAM WEEK-END

The programmable chrono-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 the daily programme if you want to use the weekly programme. If you use the weekly programme for 1, 2, 3 and 4 programmes, never enable the week-end programme. Always disable the weekly programme before enabling the week-end programme.

### Menu M4 – SELECT LANGUAGE

Use this command to select one of the languages available.

### Menu M5 – SELECT FEELER

Use this command to select the internal one or that of the remote control

### Menu M6 – MODE STAND-BY

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 M7 – MODE BUZZER

Set it to “OFF” to disable the buzzer.

### Menu M8 – LOAD INITIAL

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 P3 button to stop. For 12KW angle inserts, the initial load must be performed 5-6 times. The same initial loading will be done when you forget to insert pellets into the tank while the internal part is working. The auger will empty completely and you will have to redo the INITIAL LOAD.

### Menu M9 – STATE STOVE

This function displays the current status of all the devices connected to the stove. A few examples are included in the following pages.

### Menu M10 – SETTINGS TECHNIC

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

## 04.3 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. The technical setting mode is described in detail in the following sections.

### Stove ignition

Hold down P3 for a few seconds to switch on the stove. The display shows that the stove is on.

### 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

The alarm is triggered when, after the period of time set by Pr01, the fume temperature has not reached the minimum value permitted.

### Stove operational

If no issues have occurred at the end of the start-up phase, the stove enters normal WORK mode. Exchangers are enabled if the fume temperature is higher than Pr15. Exchangers no.2 and 3 start working only if they were previously enabled.

### Changing set room temperature

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

### External thermostat/chrono-thermostat use

If you want to use an external programmable thermostat, connect it to the TERM clamps (connector CN7 pin 7-8).

- **external thermostat:** in the stove, set a temperature SET equal to 7°C.
  - **external chronothermostat:** in the stove, set a temperature SET equal to 7°C and disable the chrono functions from the 03-01 menu.
- 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 or the fume temperature has reached the Pr13 value, the stove heat output is set automatically to the minimum value, MODULAT- mode.

If the stove is in the MODE STAND-BY, it switches off after the period of time set by Pr44 and after reaching the SET temperature. If the following condition occurs -  $Tambiente > (TSET + Pr43)$ , it is then possible to switch the stove back on.

### Cleaning the burn pot

When the stove is in normal WORK mode, the “CLEANING FIRE-POT” mode is activated for the period set by Pr12 parameter at the intervals set by Pr03 parameter.

### Stove switch off

Hold down P3 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 CLEANING FINAL phase is performed.

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 NO LIGHTIN- is displayed.

**Power outage**

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

**If the duration of the blackout is greater than T, the stove switches off.**

<b>04.4 ALARMS</b>
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In the event of a malfunction, the control board indicates the problem and activates various procedures depending on the type of alarm.

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

The alarm status is reached after a set period of time (Pr11) and can be cleared by pressing the P3 button.

**AL1 BLACK-OUT - Power blackout 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 BLACK-OUT" 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 PROBE EXHAUST" 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 EXHAUST" 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 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 NO LIGHTIN-" and the stove goes into alarm status.

**AL6 NO PELLETT - No pellets alarm**

This occurs when the fume temperature falls below a given parameter during operation. The display shows (AL6 NO PELLETT) 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 the alarm status (alarm LED on), showing "AL7 SAFETY THERMAL" 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 the alarm status (alarm LED on) showing "AL8 FAILURE DEPRESS" on the display. The stove switches off.

**SEARCH FIELD**

This message appears when the remote control is not communicating with the emergency panel. Check that the board is powered or that the emergency panel (receiver) is well connected.

**Transmission Unit Setting:**

The stove must be powered by the mains, then simultaneously press keys (P1) and (P2) for about 3-4 seconds until the text SCEGLI UNITA' appears; select the transmission unit (1-2-3...) with keys (P1) and (P2). Remote controls are supplied with transmission unit set to 0 (default unit). Press and hold the ON/OFF button (P3) for approximately 3 seconds to save. The remote control is ready for normal operation.

**These operations must be carried out within 30 seconds of feeding the stove.**



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