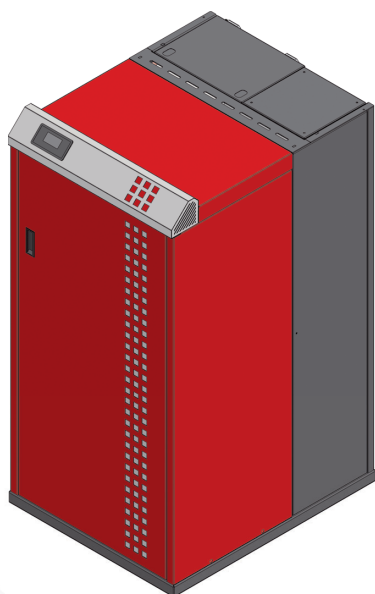


CARINCI ECO



CARINCI ECO COMPACT



CARINCI ECO

Model **25 25 MAX**
25 COMPACT 25 COMPACT MAX

Environment class

★★★★☆

Move your phone's camera closer to the QR Code to view the link and download the manual and certificates



CARINCI ECO

Modello **30 30 MAX**
30 COMPACT 30 COMPACT MAX

Environment class

★★★★☆

Move your phone's camera closer to the QR Code to view the link and download the manual and certificates



CARINCI ECO

Modello **35 35 MAX**
35 COMPACT 35 COMPACT MAX

Environment class

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PREFAZIONE

Valued Client, Carinci Group SpA would like to thank you for choosing the **CARINCI BOILER ECO**, the latest technological innovation in biomass heating.

In this manual you will find all information and useful advice for the correct installation, use and maintenance of the product, in compliance with current regulations.

INITIAL WARNINGS

This instruction manual is an integral part of the product and it must be supplied with the equipment. Should it be damaged or lost, request another copy from the local technical service or request a digital copy at the address *info@carincigroup.it*.

This product must be intended exclusively for the use for which it was designed and manufactured. Any contractual and non-contractual liability of the manufacturer for damages caused to people, animals or things, from installation, adjustment, maintenance errors and improper use is excluded. Any contractual and non-contractual liability of the manufacturer for damages caused to people, animals or things, from installation, adjustment, maintenance errors and improper use is excluded.

The installation must be performed by enabled and qualified personnel, who will assume full responsibility for the definitive installation and consequent good functioning of the product. When installing the product, it is necessary to take into account all the national, regional, provincial and municipal laws and regulations present in the country in which the equipment is installed, as well as the instructions contained in this manual.

The boiler must be installed in a proper room in compliance and compatible with the nature of the equipment itself (technical room).

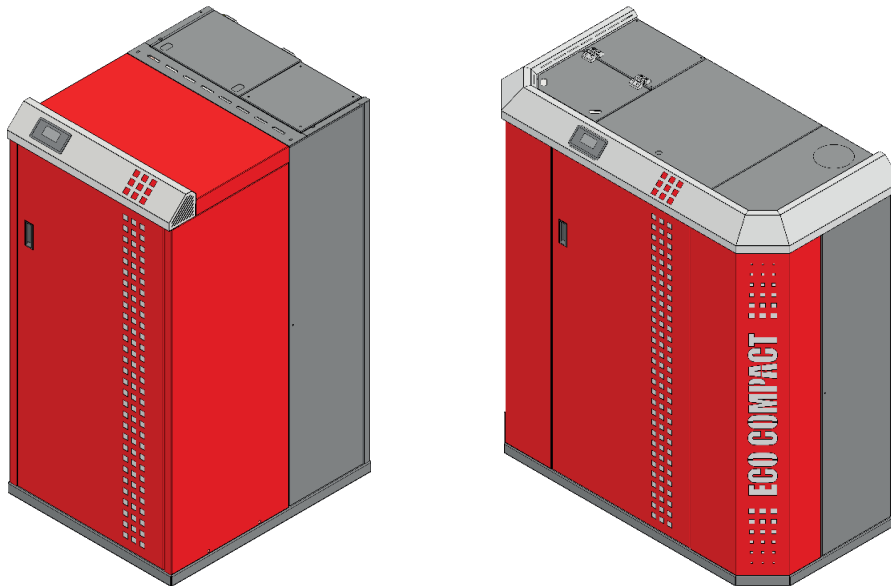
There will be no liability on the part of the manufacturer in the event of non-compliance with these specific requirements.

After removing the packaging, make sure of the correspondence and completeness of the content. Should this not be the case, contact the dealer from whom the equipment was purchased and immediately submit the reports. No disputes of any title will be accepted after two days from the receipt of the goods.

SAFETY

1. Do not use the appliance as an incinerator or in any other way other than that in which it was conceived;
2. Do not use fuels other than those recommended;
3. Do not use flammable liquids for ignition;
4. The equipment in operation reaches high temperatures, therefore it is necessary to operate with great caution in order to avoid burns;
5. The Boiler **ECO**, once positioned, must have a radius of **free space suitable** (as indicated in paragraph 2) to ensure easy inspection and maintenance;
6. Do not make any unauthorized modification on the equipment;
7. In case of failure or malfunction, use only original spare parts. In any case, the replacement must be carried out exclusively by personnel authorized by **Carinci Group SpA**;
8. In the event of a fire on the appliance or on the flue gas evacuation system, immediately turn off the power supply, equip yourself with the appropriate fire extinguishing systems and promptly request the intervention of the firefighters;
9. Should maintenance or repairs be carried out, make sure that the equipment is not connected to the electrical network;
10. Contact with the equipment is prohibited in the presence of wet or damp parts of the body;
11. We recommend positioning the power cable so that it does not come into contact with the hot parts of the equipment. In addition, make sure that the power plug is always accessible.
12. It is forbidden to modify the safety devices or the operating parameters on the equipment;
13. Do not reduce or obstruct the ventilation openings necessary for correct combustion in the room where the equipment is located;
14. Following a long period of non-use, check for any obstructions in the flue gas duct and in the ventilation duct before proceeding to start the appliance again;
15. During normal operation of the appliance, the doors must remain closed;
16. The equipment has been designed to operate in any climatic condition but, in the event of particularly adverse conditions (e.g. strong wind), safety systems may shut down the equipment. In this case, contact the technical assistance service without disabling the safety devices on your own;
17. While loading the pellet tank, avoid contact between the bag and the hot metal parts of the appliance.

1.0 PRESENTATION OF THE BOILERS ECO and ECO COMPACT



The Boiler ECO has been designed and produced for heating through the use of biomass fuel.

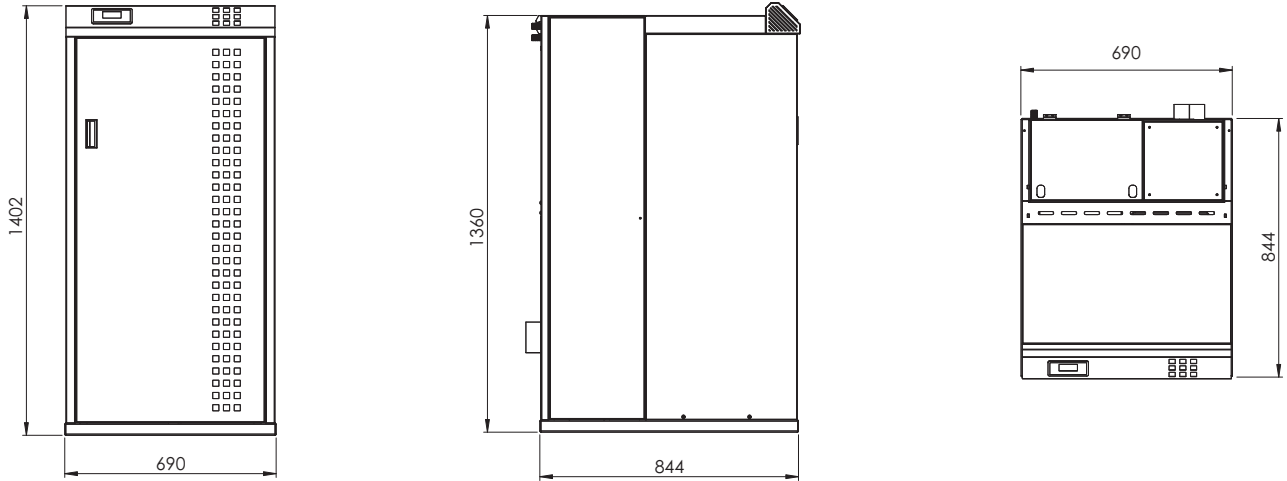
The Boiler ECO series is produced in the following versions and powers:

- ECO 25 with power modulation from 8,50 to 25,27 kW
- ECO 25 MAX with power modulation from 8,50 to 25,27 kW
- ECO 25 COMPACT with power modulation from 8,50 to 25,27 kW
- ECO 25 COMPACT MAX with power modulation from 8,50 to 25,27 kW
- ECO 30 with power modulation from 8,95 to 27,62 kW
- ECO 30 MAX with power modulation from 8,95 to 27,62 kW
- ECO 30 COMPACT with power modulation from 8,95 to 27,62 kW
- ECO 30 COMPACT MAX with power modulation from 8,95 to 27,62 kW
- ECO 35 with power modulation from 9,40 to 29,97 kW
- ECO 35 MAX with power modulation from 9,40 to 29,97 kW
- ECO 35 COMPACT with power modulation from 9,40 to 29,97 kW
- ECO 35 COMPACT MAX with power modulation from 9,40 to 29,97 kW

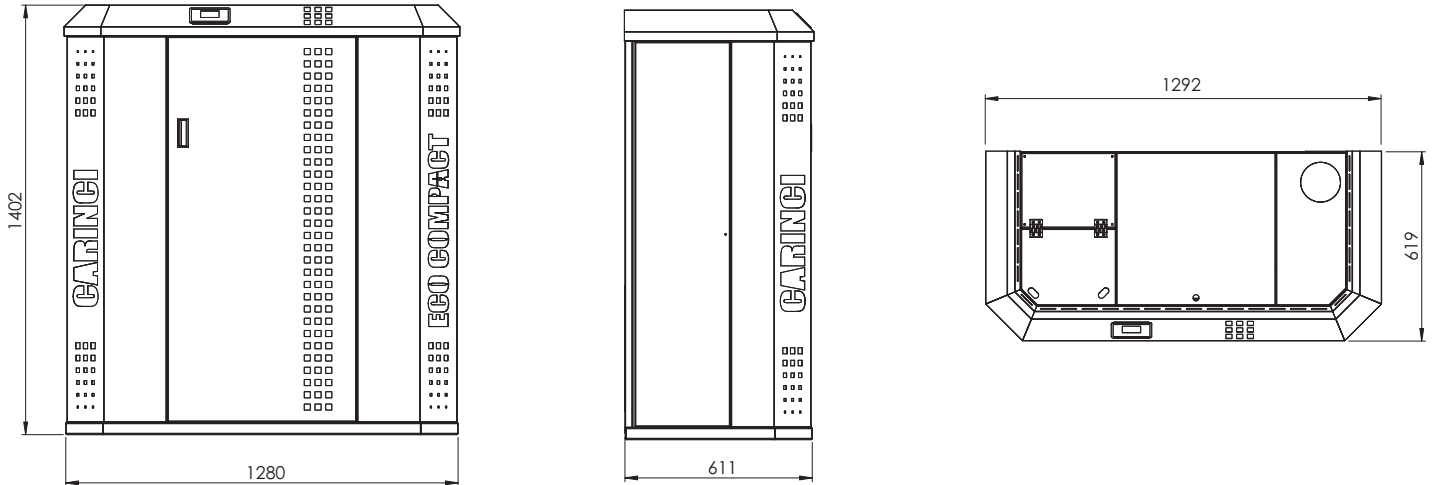
The technical characteristics, the design and the technology of the Boiler ECO are those identifying of Carinci Group S.p.A. already adopted in all other equipment.

1.1 DIMENSIONS OF BOILERS ECO AND ECO COMPACT

ECO

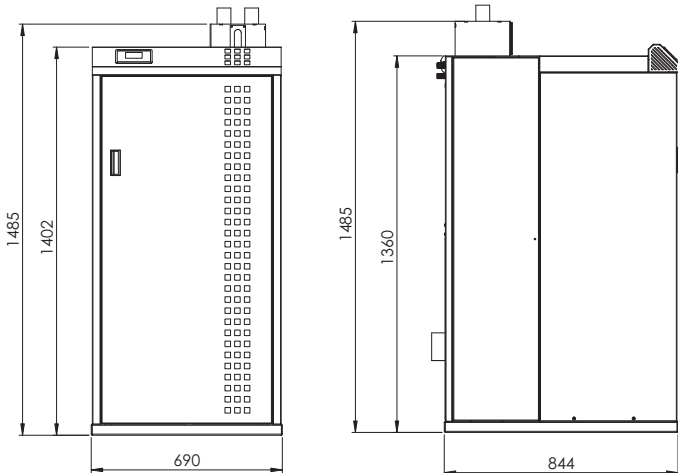


ECO COMPACT

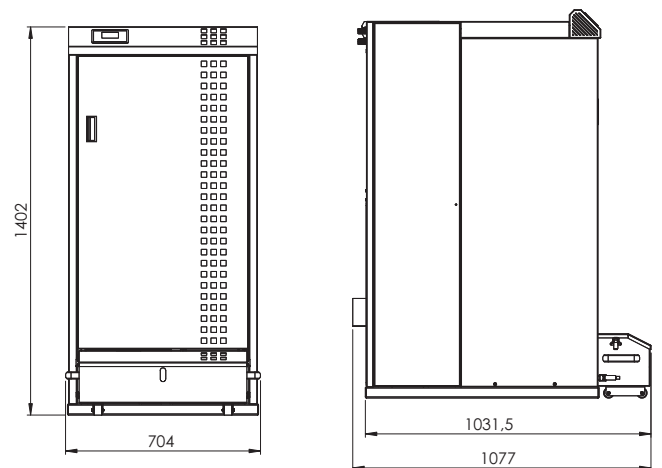


Note: The COMPACT version can have the flue gas outlet in the rear or on the top

ECO equipped with automatic pellet loading

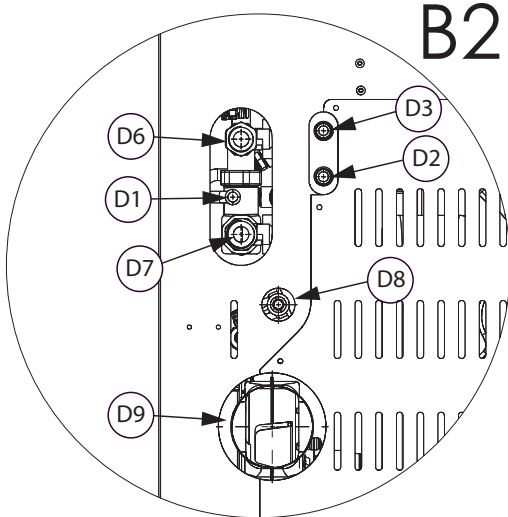
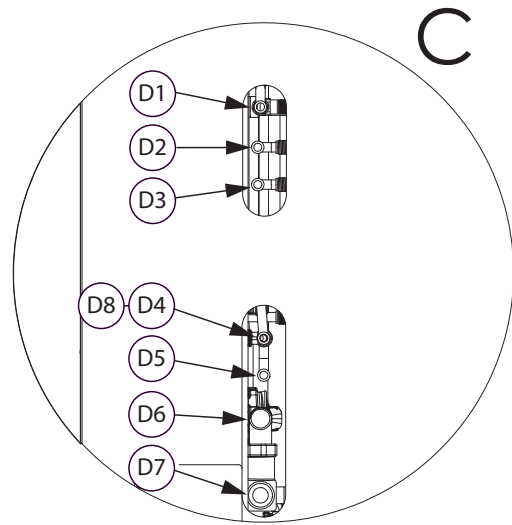
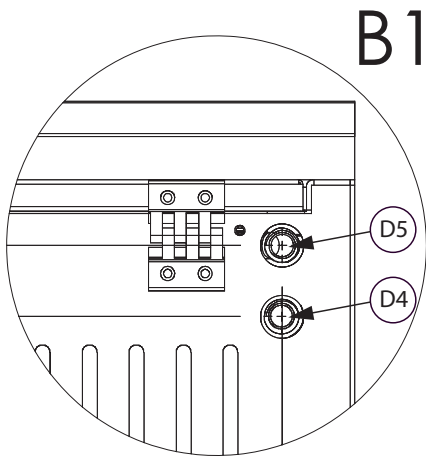
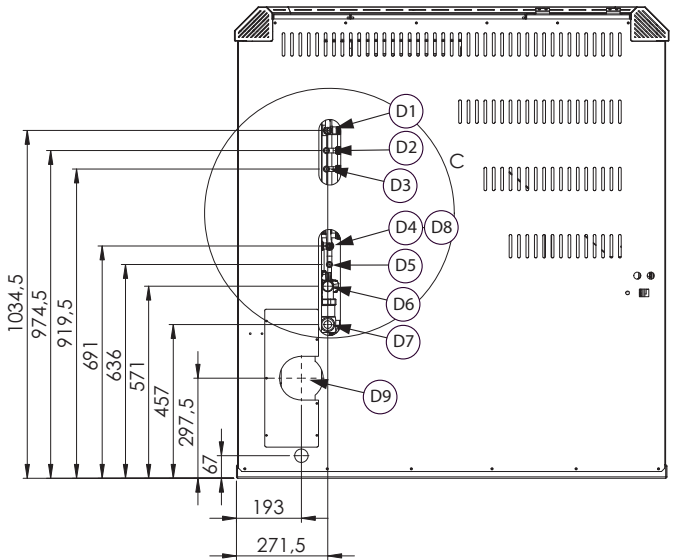
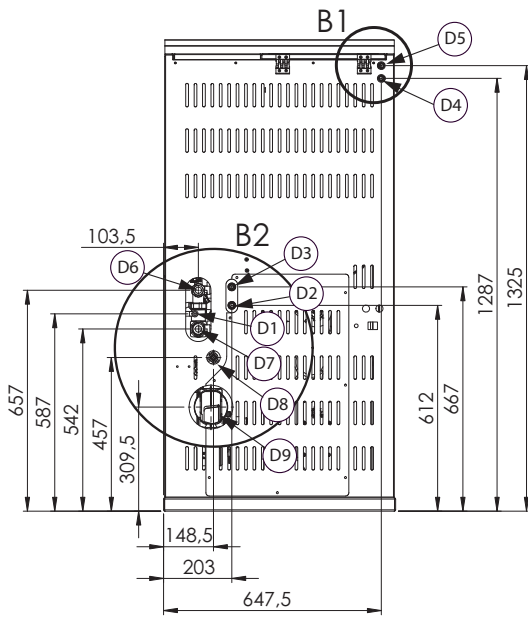


ECO equipped with ash compactor



Measures expressed in millimeters

1.2 HYDRAULIC CONNECTIONS AND TECHNICAL DATA



	MODEL 25	MODEL 30	MODEL 35
D1 Safety valve outlet	1/2" F	1/2" F	1/2" F
D2 Heat discharge input	1/2" M*	1/2" M*	1/2" M*
D3 Heat discharge output	1/2" M*	1/2" M*	1/2" M*
D4 Domestic cold water inlet	1/2" M	1/2" M	1/2" M
D5 Domestic hot water outlet	1/2" M	1/2" M	1/2" M
D6 Delivery heating	1" F	1" F	1" F
D7 Return heating	1" F	1" F	1" F
D8 Filler group inlet	1/2" M	1/2" M	1/2" M
D9 Diameter flue gas pipe outlet	120 mm F	120 mm F	120 mm F

* = On the MAX models the hydraulic connection is 1/2" F

		MODEL 25	MODEL 30	MODEL 35
Total heating output	kW	27,4	30	32,6
Rated heat output	kW	25,27	27,62	29,97
Minimum heat power	kW	8,5	9,75	11
Fuel flow rate	max Kg/h	5,4	6,0	6,5
	min Kg/h	1,8	2,1	2,4
CO at 10% O2	mg/Nm ³	131,85	128,24	124,64
NOx at 10% O2	mg/Nm ³	159,47	156,07	152,67
OGC at 10% O2	mg/Nm ³	2,90	2,83	2,76
Dust at 10% O2	mg/Nm ³	13,37	13,01	12,65
CO at 13% O2	mg/Nm ³	95,89	93,27	90,64
NOx at 13% O2	mg/Nm ³	115,98	113,51	111,03
OGC at 13% O2	mg/Nm ³	2,11	2,06	2,01
Dust at 13% O2	mg/Nm ³	9,72	9,46	9,2
Pellet tank	Lt	115	115	115
Water capacity in boiler	Lt	80	80	80
Weight ECO	kg	370	370	370
Weight ECO COMPACT	kg	395	395	395
Efficiency	max %	92,35	92,17	91,98
	min %	92,82	92,68	92,53
Average draught	Pa	12	12	12
Maximum operating pressure	bar	3	3	3

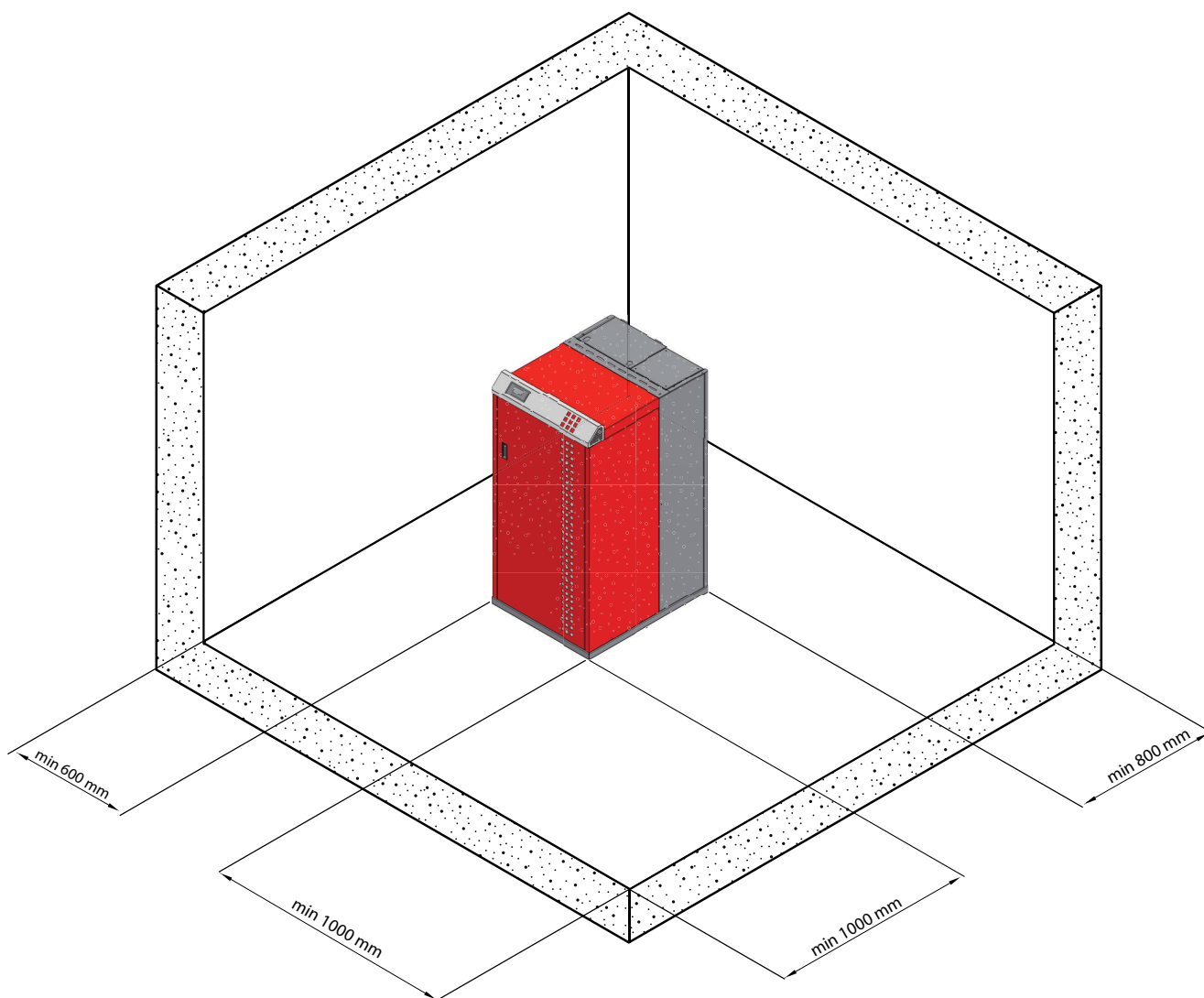
2.0 POSITIONING

Before proceeding with the positioning of the boiler, make sure that the installation room is suitable. It is forbidden to place the generator inside fire risk rooms. The installation of the boiler is allowed only in **a specific room that complies and is compatible with the nature of the equipment itself (technical room).**

ATTENTION!

It is mandatory that the boiler installation room has a support surface (floor slab) with load-bearing capacity suitable to bear the overall weight of the equipment. Should the construction not meet this requirement, take appropriate measures.

Also check that the walls of the room are fireproof.



The boiler installation room must be equipped with an adequate air vent as specified in the standard **UNI EN 303-5**. Ensure a pressure difference of 4 Pa or less between the external and internal environment.

The air vent must be:

- protected by an anti-insect grid;
- made in such a way as to guarantee maintenance;

The ventilation of the installation room can also be obtained through an adjacent room (indirect ventilation) as long as it ensures free flow through the permanent openings communicating with the outside. In these cases, the adjacent room cannot be used as a garage or warehouse for combustible material and, more generally, for any fire risk activity.

3.0 FLUE GAS EVACUATION

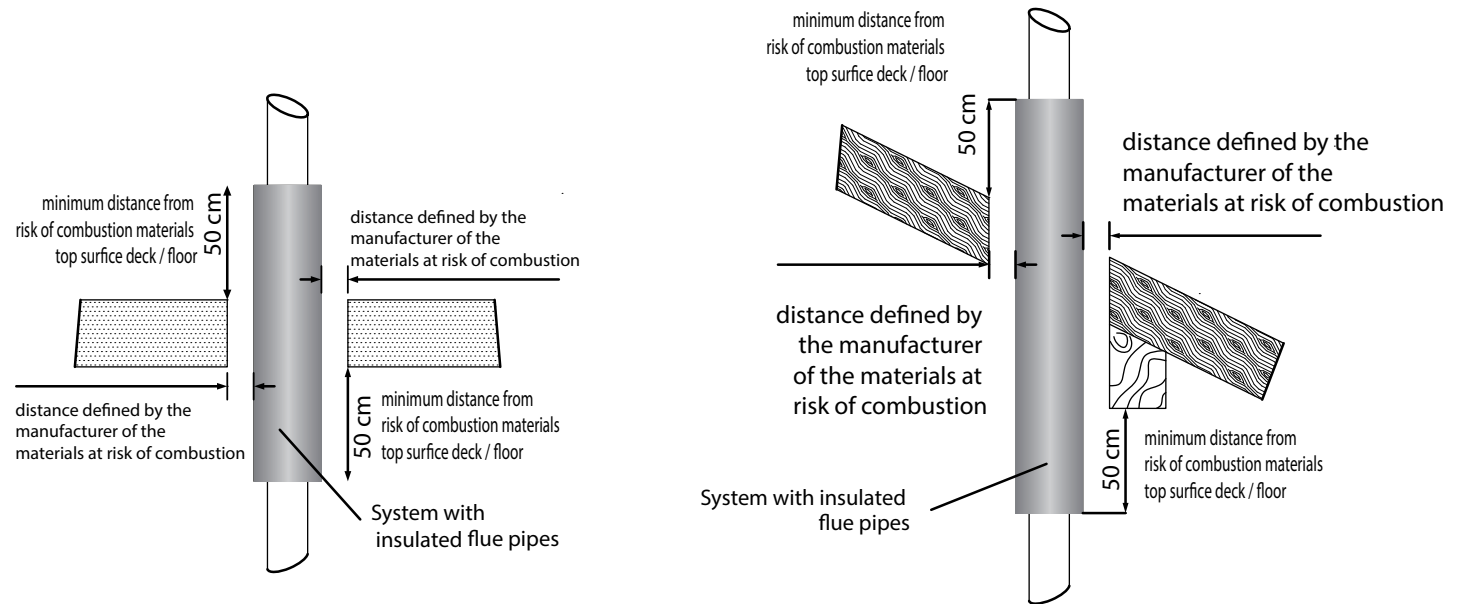
Since the boiler is equipped with combustion fans, it is necessary for the flue gas extraction to be connected to a suitable flue gas exhaust system so as to guarantee a draft (12 ± 2 Pa) and adequate dispersion of the combusted products into the atmosphere. Each appliance must be connected to its own flue gas evacuation system and the discharge must take place exclusively on the roof. As a consequence, direct wall discharge to closed spaces is forbidden even if in the open air.

The use of flexible and extensible metal ducts for connection to the flue gas chimney is not allowed.

The chimney must only receive the exhaust from the flue gas connected to the appliance. Collective flue pipes are not allowed. Consequently, conveyances to other flue pipes, overlying hoods, to cooking appliances of any kind are not allowed, let alone from discharges from other heat generators.

The flue gas duct and the chimney must be connected continuously. The chimney must be used for the exclusive use of the flue gas evacuation. Therefore, other channels and / or pipes for system engineering use are not allowed to pass through it (e.g. various hydraulic pipes, solar pipes, etc.).

Should the chimney cross materials at risk of combustion, it is necessary to respect the distances as shown in the figure below.



At the end of the installation of the chimney, the installer must fill in and fix the label in a visible way.

The components of the smoke evacuation system must be chosen in relation to the type of appliance to be installed according to the standards:

UNI TS 11278, UNI EN 1856-1 and UNI EN 1856-2, UNI EN 1443, UNI EN 1806, UNI 7129-1/2/3/4, UNI 10683/12.

3.1 GENERAL REQUIREMENTS FOR FLUE GAS DUCTS (reference standard UNI 10683/12 art. 6.5.3)

The flue ducts must comply with the following requirements:

- They must be INSULATED if they pass inside cold rooms or if they are outside the building;
- They must NOT pass through compartmented rooms, with fire hazard, where it is forbidden to install combustion appliances, rooms or spaces that cannot be inspected;
- Allow normal dilation;
- PROHIBITED sections in counter-slope;
- Unless otherwise indicated by the manufacturer, always have a diameter equal to or greater than that of the appliance's flue gas outlet;
- Any changes in section / diameter, both increasing and decreasing, are only allowed at the entrance of the smoke chimney, in particular the diameter reductions must be of the conical type;
- Limit the formation of condensation and avoid any leakage from the joints;
- It must allow the recovery of soot, be cleanable and inspectable even with access from the equipment itself.

ADDITIONAL REQUIREMENTS forced draft appliances (reference standard UNI 10683/12 art. 6.5.3.3)

Unless otherwise indicated by the manufacturer or calculation as per UNI EN 13384-, a maximum of 3 direction deviations are allowed at a maximum of 90 ° (including the connection) with a maximum aerial projection length of 4 meters. In the case of a device with rear output, the change of direction deriving from the rear connection (T or curve) must NOT be counted.

3.2 GENERAL REQUIREMENTS FOR CHIMNEYS (reference standard UNI 10683/12 art. 6.5.4)

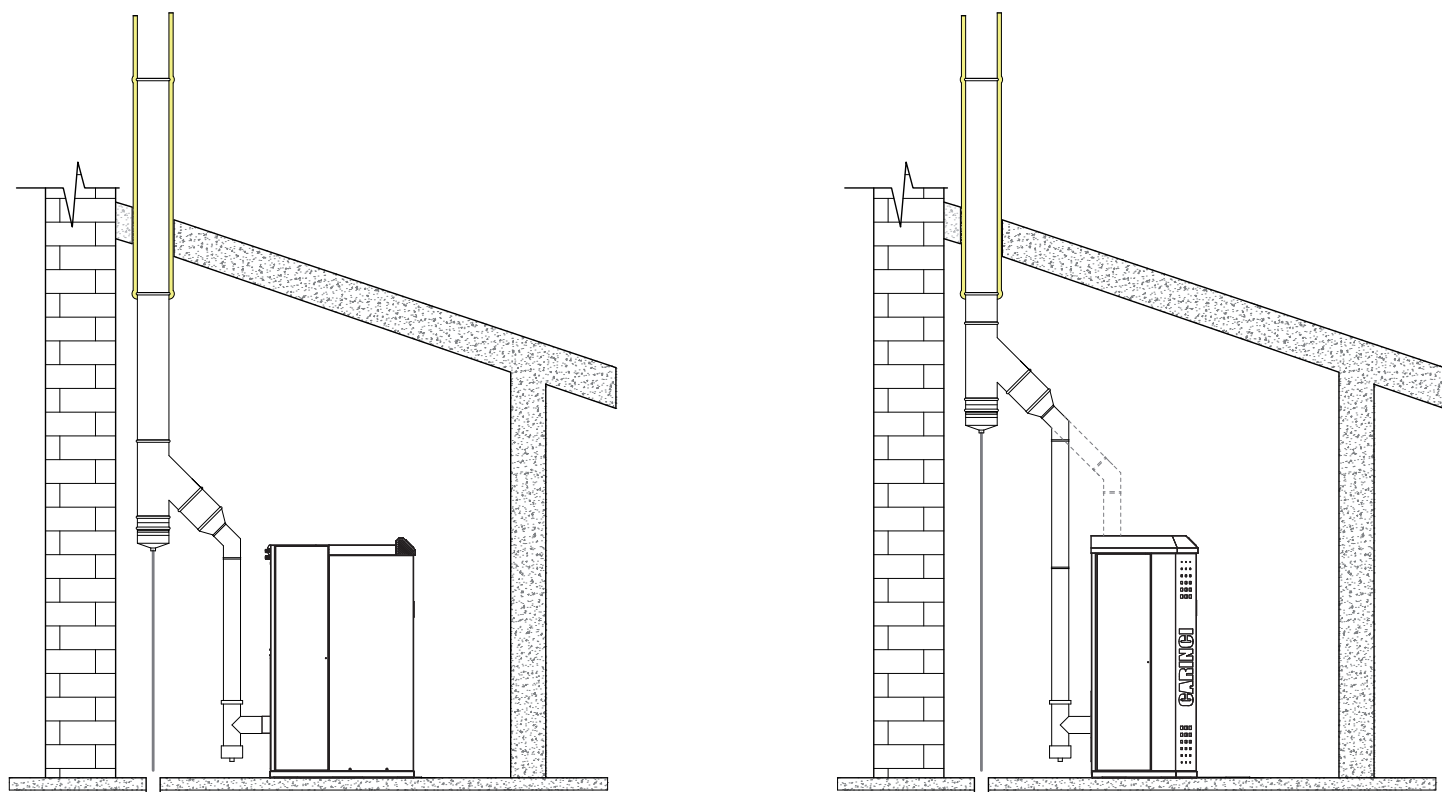
The chimneys must comply with the following requirements:

- NATURAL DRAFT depression operation only;
- Preferably circular shape, if square or rectangular with angles having a minimum radius of 20 mm and a ratio between long and short sides up to a maximum of 1.5;
- Designated for the exclusive use for flue gas disposal;
- Mainly VERTICAL tendency;
- Absence of bottlenecks along the entire length;
- Maximum 2 direction changes of max. 45°;
- Draft as required by the appliance, in the absence of indications it must be kept at 12 ± 2 Pa;
- In the case of a wet operation, they must be equipped with a device for draining waste water (condensation, rainwater).

Should the chimneys be outside the building, they must be insulated (see diagram below).

In addition, make sure that the diameter is appropriate for the equipment.

For this, follow the instructions given by the manufacturer.



3.2.1 MINIMUM REQUIREMENTS OF THE CHIMNEYS WITH SOLID FUELS

- The chimney temperature class must not be less than the maximum flue gas outlet temperature declared by the manufacturer of the equipment;
- Class G, followed by safety distance XX, is always prescribed for soot fire resistance class;
- if products with **double designation*** (G and O depending on the presence of the sealing gasket) are used, and only for the smoke duct, the minimum distance indicated in the Gxx class must be observed and, in case of soot fire, the initial conditions must be restored.

* = Without gasket T600 N1 W V2 L50040 G 70
With gasket T200 P1 W V2 L50040 G 20

3.3 CHIMNEY POT (reference standard UNI 10683/12 art. 6.5.6)

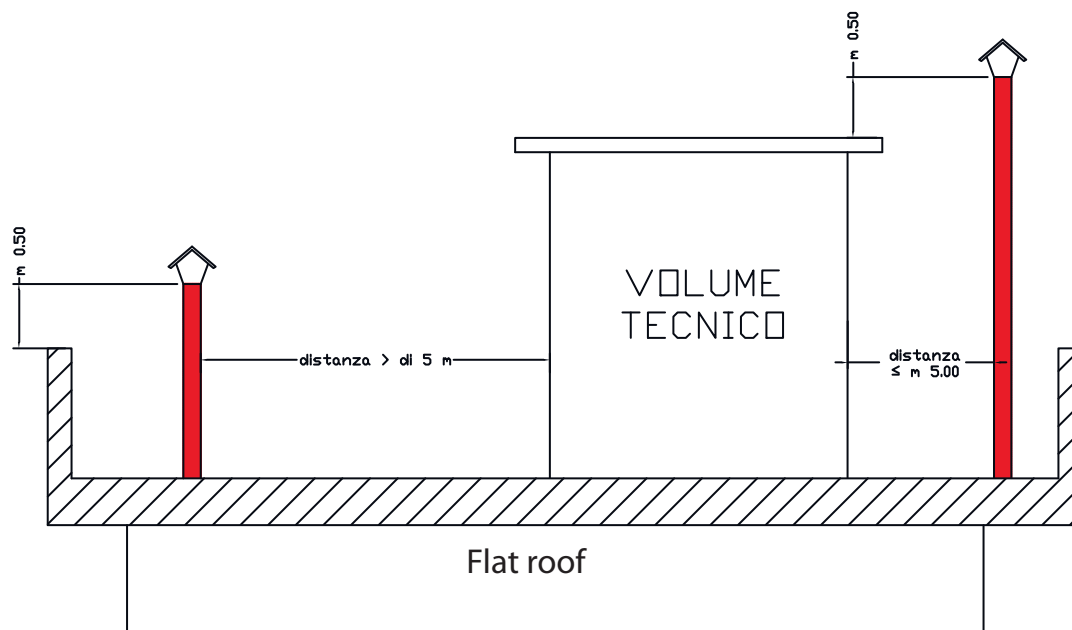
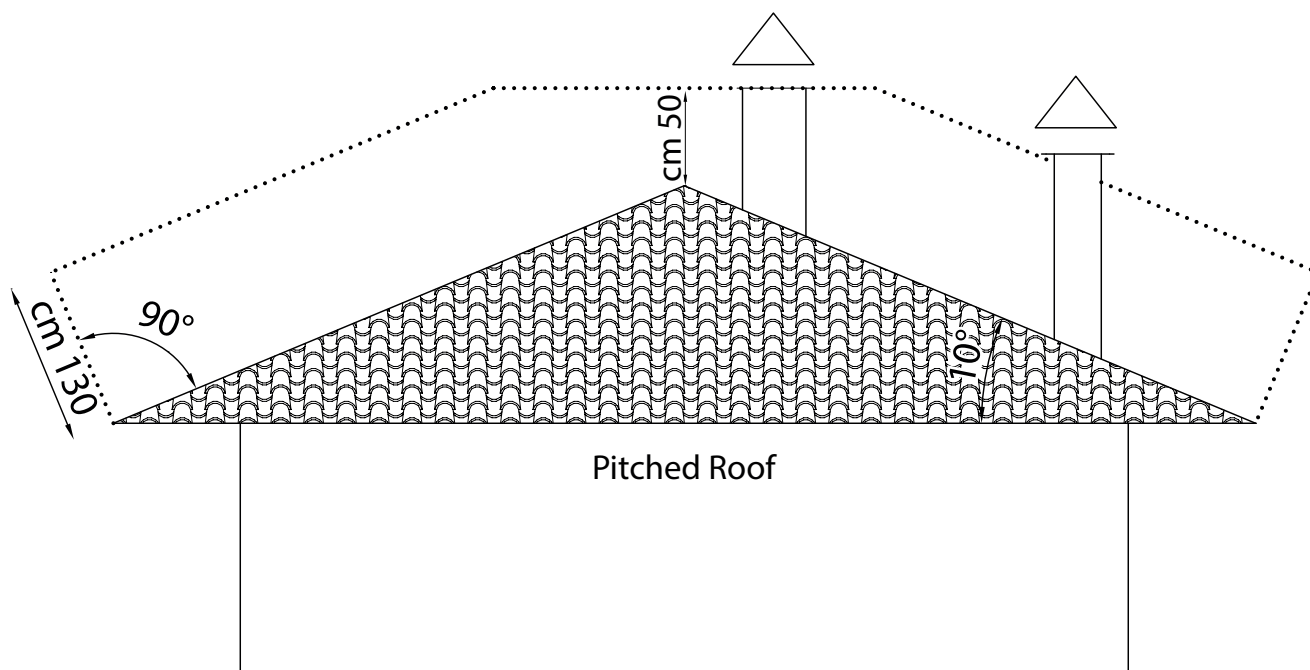
Chimney pots must meet the following requirements:

- Have a useful outlet section no less than double that of the chimney;
- Prevent the penetration into the chimney of rain, snow and foreign objects/bodies;
- Windproof function;
- Away from reflux areas;
- Free of mechanical suction aids.

3.4 THE OUTLET QUOTA OF THE FLUE PIPE (reference standard UNI 10683/12 art. 6.5.8 e 6.5.9.5)

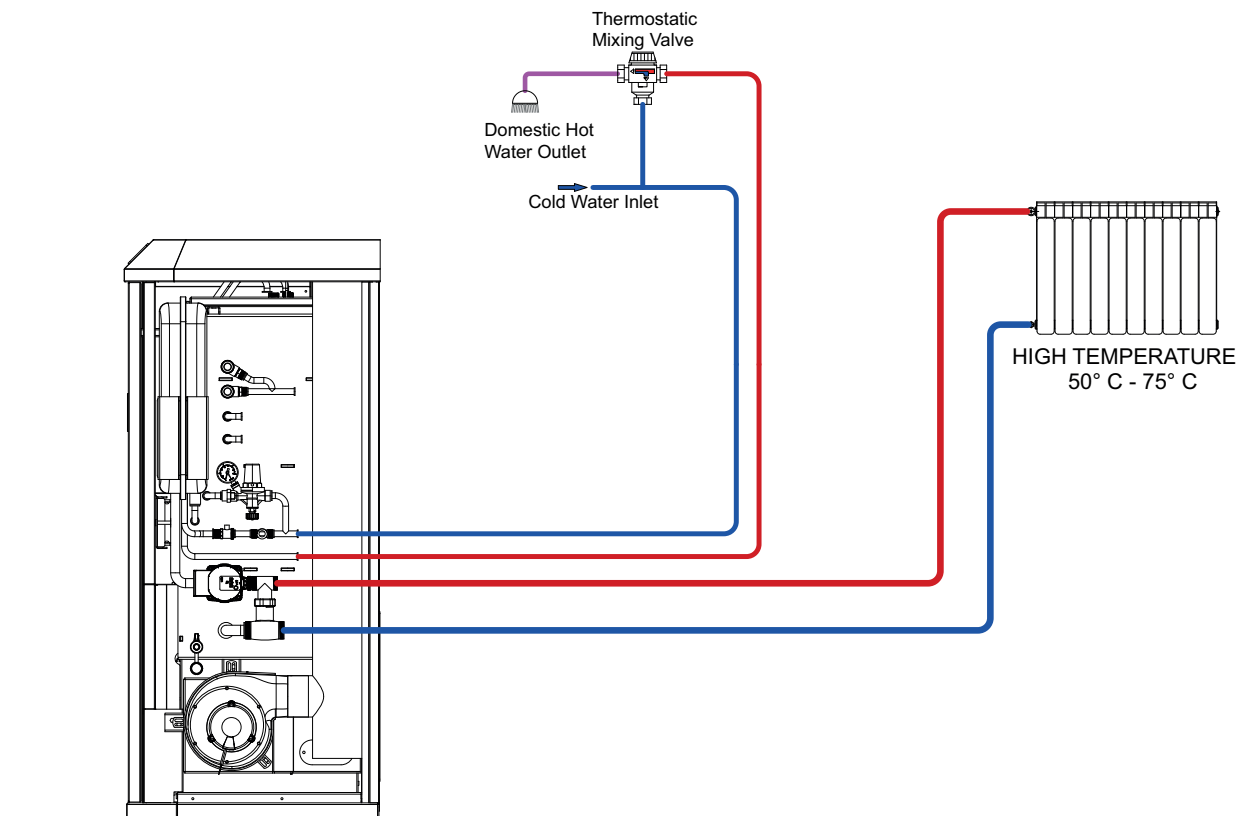
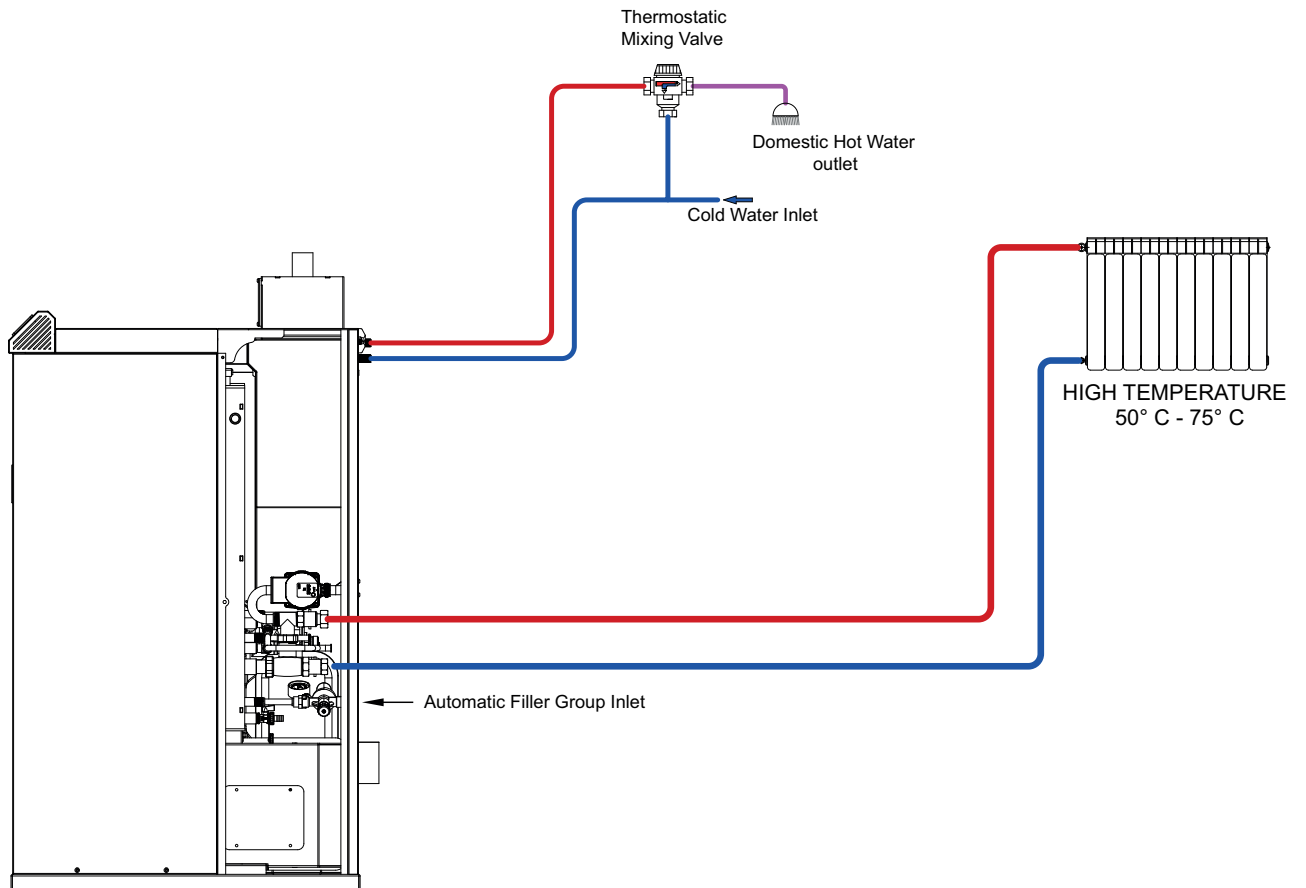
The outlet quota is determined by measuring the minimum height between the roof covering and the lower point of the section for the emission of flue gas into the atmosphere; this quota must be outside the reflux area and at an adequate distance from obstacles that prevent or make it difficult to evacuate the gases produced by combustion or from openings or accessible areas. The outlet quota must be outside the reflux area as shown in the diagram below.

The outlet of a chimney / ducted system must not be near obstacles that could create turbulence areas and / or hinder the correct evacuation of the combustion products. In addition, it is advisable to check for the presence of other chimney pots, skylights and / or dormers.



4.0 BOILER HYDRAULIC CONNECTION - HEATING SYSTEM

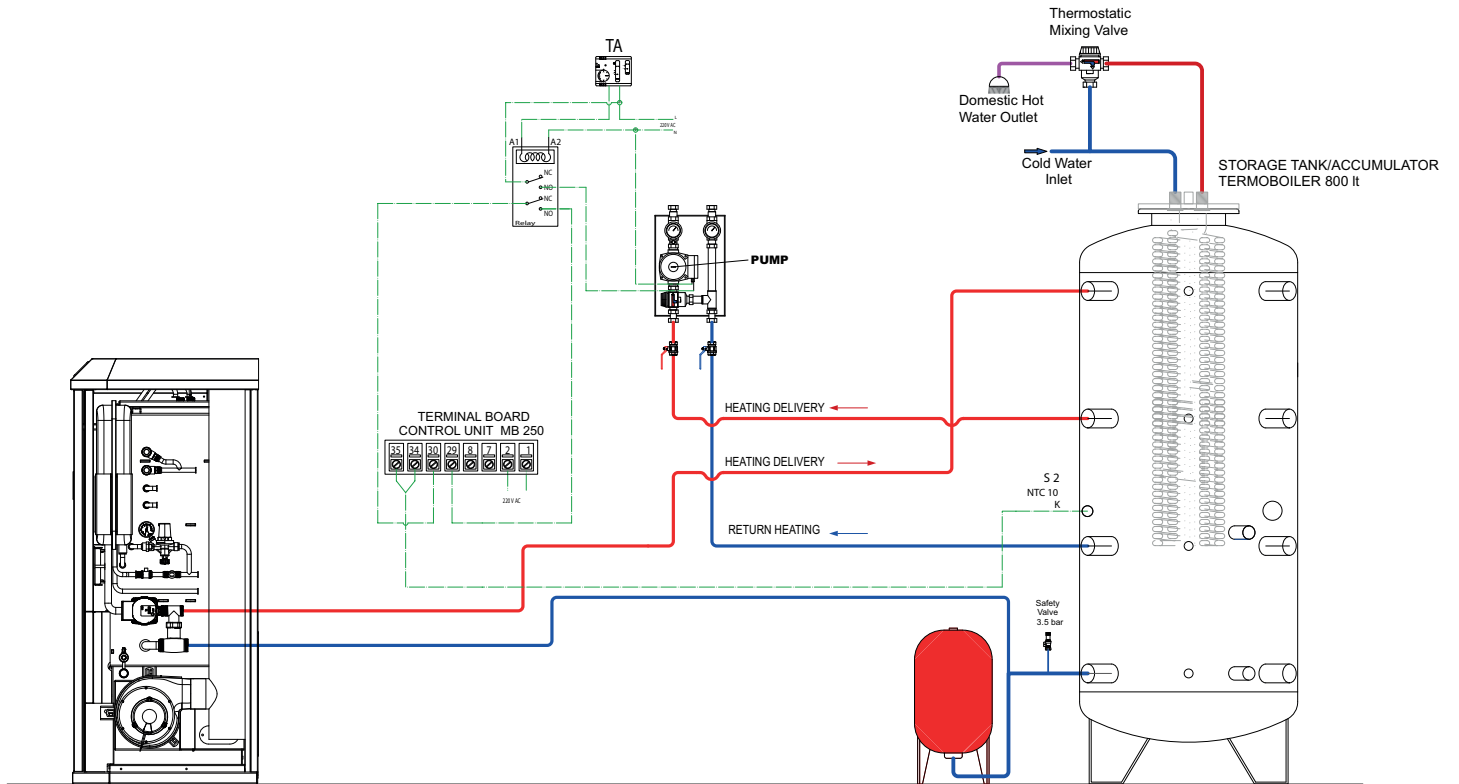
Hydraulic connection example of the Boiler ECO and ECO COMPACT to the Heating System



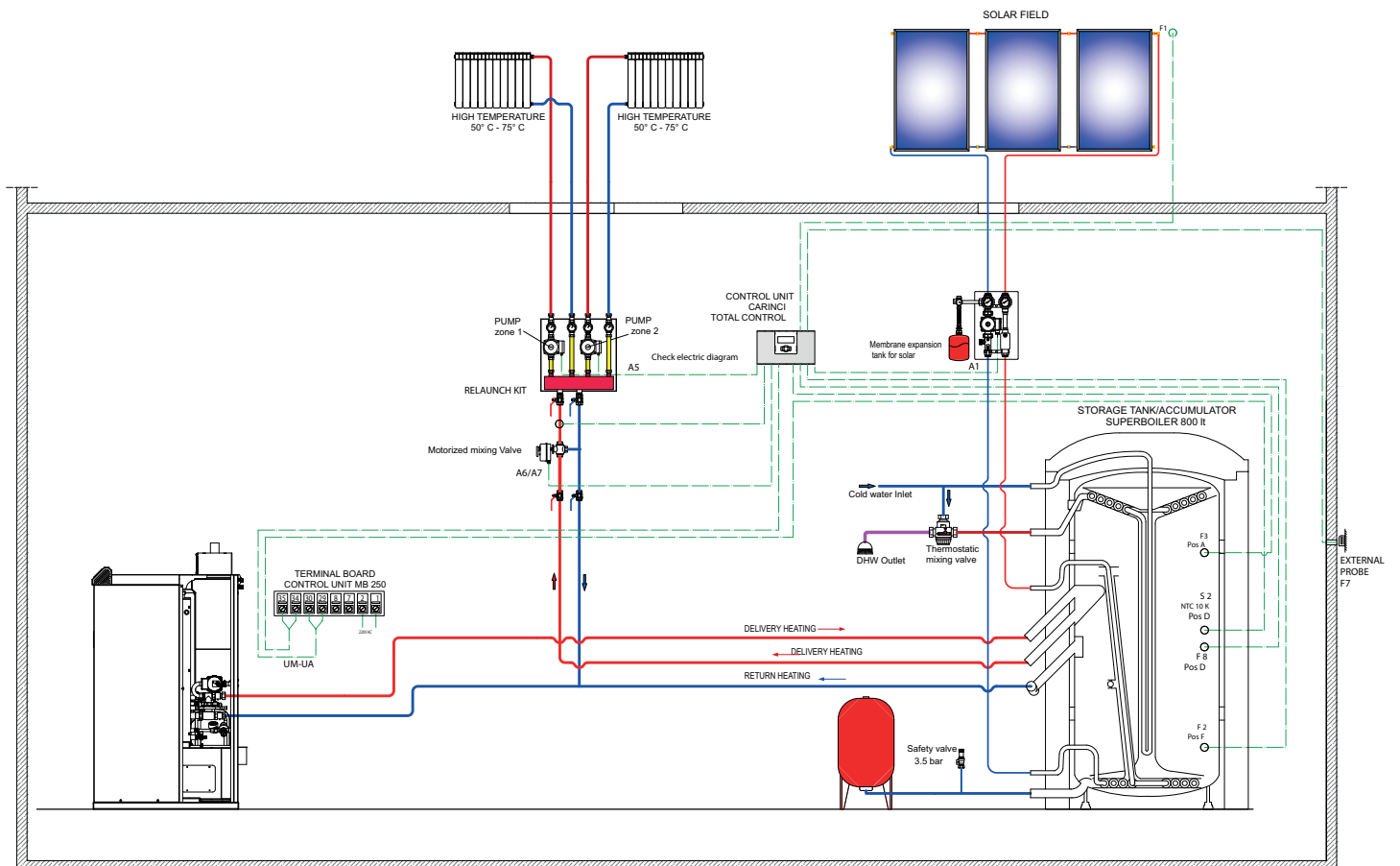
Note: The above diagrams are purely indicative and in no way replace the design.

4.1 HYDRAULIC CONNECTIONS OF THE BOILER WITH A PUFFER

Hydraulic connection example of the Boiler ECO COMPACT to the Puffer and to the Heating System



Hydraulic connection example of the Boiler ECO with solar system and TOTALCONTROL setting



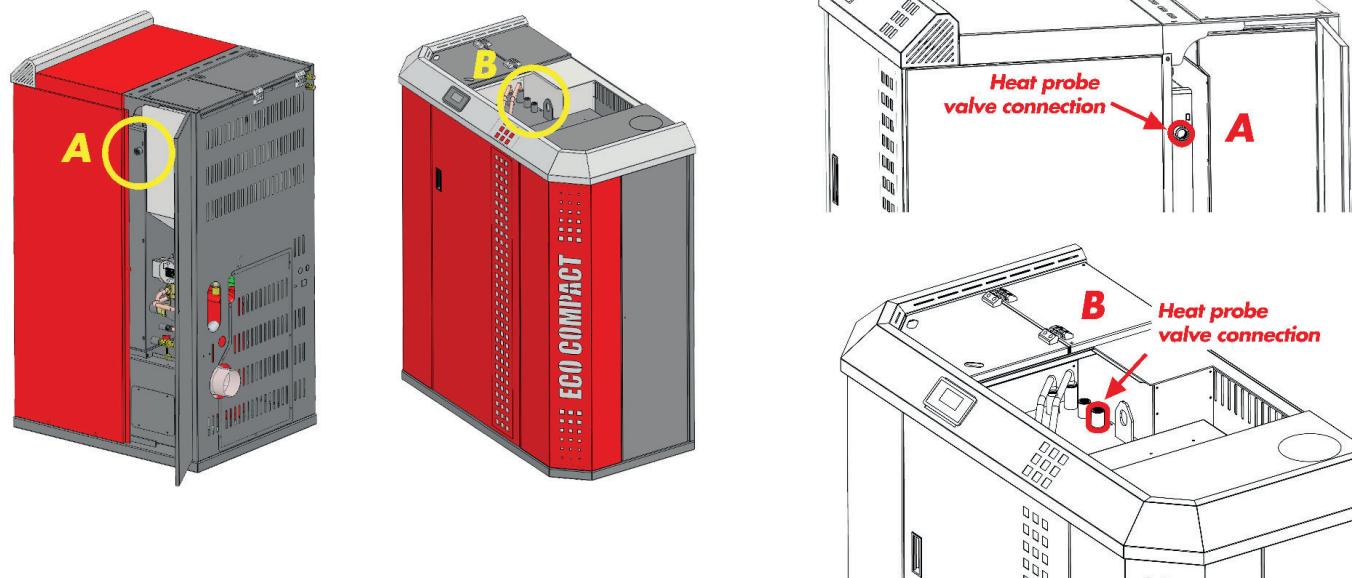
Note: The above diagrams are purely indicative and in no way replace the design.

4.2 HYDRAULIC SAFETY DEVICES

Installation, connections to the system, placing in service and verification of correct operation must be carried out in a workmanlike manner, in compliance with current national, regional and municipal regulations, as well as with the instructions given in the following user operating manual.

Installation must be performed by qualified personnel (as per DM 22 January 2008 n° 37).

For thermal safety, the appliance is equipped with a heat exchanger, inserted in the boiler body, with the function of eliminating excess heat produced by means of a flow of water entering the aqueduct and flowing into a drain controlled and activated by a **thermal discharge valve that must be installed on the appliance.**



IMPORTANT NOTICE: On the "MAX" versione, the heat discharge valve is a standard feature.

The Manufacturer declines all responsibility for damage to things, people and / or animals caused by the system.

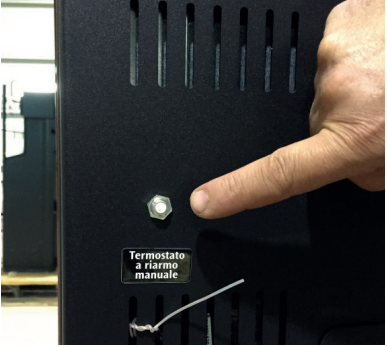

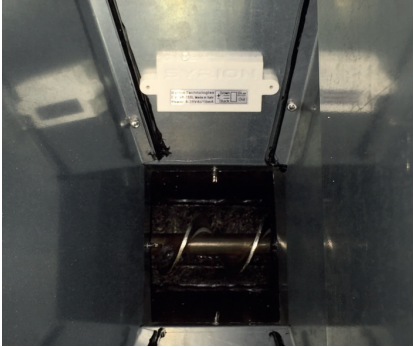
4.3 REQUIREMENTS FOR CLOSED CIRCUIT SYSTEMS

- According to the norm UNI 10412-2 (2009) in force in Italy, closed systems must be equipped with:
- safety valve;
- circulator control thermostat;
- audible alarm activation thermostat;
- temperature gauge;
- pressure gauge;
- acoustic alarm;
- automatic regulation heat switch managed by the board program;
- automatic heat break switch;
- circulation system;
- expansion system;
- STANDBY / PUMP LOCK safety system provides for the automatic activation of the system circulator for the disposal of excess heat when reaching a temperature above average. Therefore, the free circulation of the fluid on a part of the heating system is mandatory;
- safety dissipation system incorporated in the generator with heat discharge valve (self-operated), if the appliance is not equipped with a self-regulation system for the temperature.

The ECO and ECO COMPACT boiler have been designed and built for operation with closed vase systems.

4.4 ELECTRONIC SAFETY DEVICES

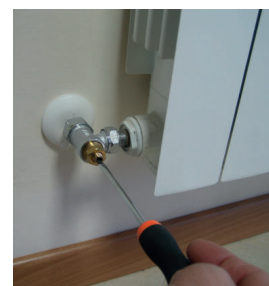
The appliance is equipped with the following safety devices:

		
Manual Reset Thermostat (85 °C)	Pellet duct temperature probe	Pellet level sensor

4.5 ADJUSTMENT ON THE HEATING CIRCUIT

A good regulation on the heating system is necessary by acting on the adjustment of the circulator flow rate and on the regulation of the individual distribution circuits. Adjust the following:

- The circulator flow rate must be adequate in relation to the capacity and pressure drops of the system. Adjust using the flow control knob.
- Adjust the flow rate on the individual radiating elements (in the case of convection-type distribution) by acting on the lockshield regulating screw starting from the closest elements. In case of radiant distribution, adjust the valves of the individual circuits.



4.6 DOMESTIC HOT WATER (where applicable)

The versions with the production of domestic hot water are equipped with a very high efficiency finned copper heat exchanger. They also have a flow switch which, when hot sanitary water is used, temporarily blocks the system circulator in order to exchange all the energy for the production of domestic hot water.

5.0 PELLET LOADING

To load the pellet tank, follow the instructions hereafter:

- make sure that the plastic bag never comes in contact with the metal parts;
- open the lid of the tank;
- collect the pellets from the bag using a scoop;
- introduce the pellets in the tank.

ATTENTION!

Only use pellets that comply with the reference standards:

- EN plus - UNI EN 16961-2 class A1 or A2
- Ö-norm M 7135
- DIN plus 51731

The use of poor quality pellets or any other material can damage the functions of the generator, thus causing the termination of the warranty and the direct responsibility of Carinci Group S.p.A.

To ensure trouble-free combustion, we recommend that the pellets be stored in a dry place.

6.0 TO START THE EQUIPMENT

Before performing the Placing in Service of the appliance, it is necessary to complete the plumbing, the electrical connections and the flue gas evacuation system. After having correctly installed the equipment, the Placing in Service of the Boiler can be executed but only by a **CARINCI Technical Assistance Center (T.A.C.)**, that, before starting the ignition, check the correct positioning and installation of the generator so as to proceed in safety. Furthermore, the Carinci technician must receive the **Declaration of System Compliance** issued by the installer and also:

- Photographic copy of the chimney plate/label;
- User manual or booklet of the system (where applicable).

The T.A.C. reserve the right to not start the Boiler should the safety conditions be deemed inadequate due to incorrect installation of the generator or of the flue gas evacuation system.

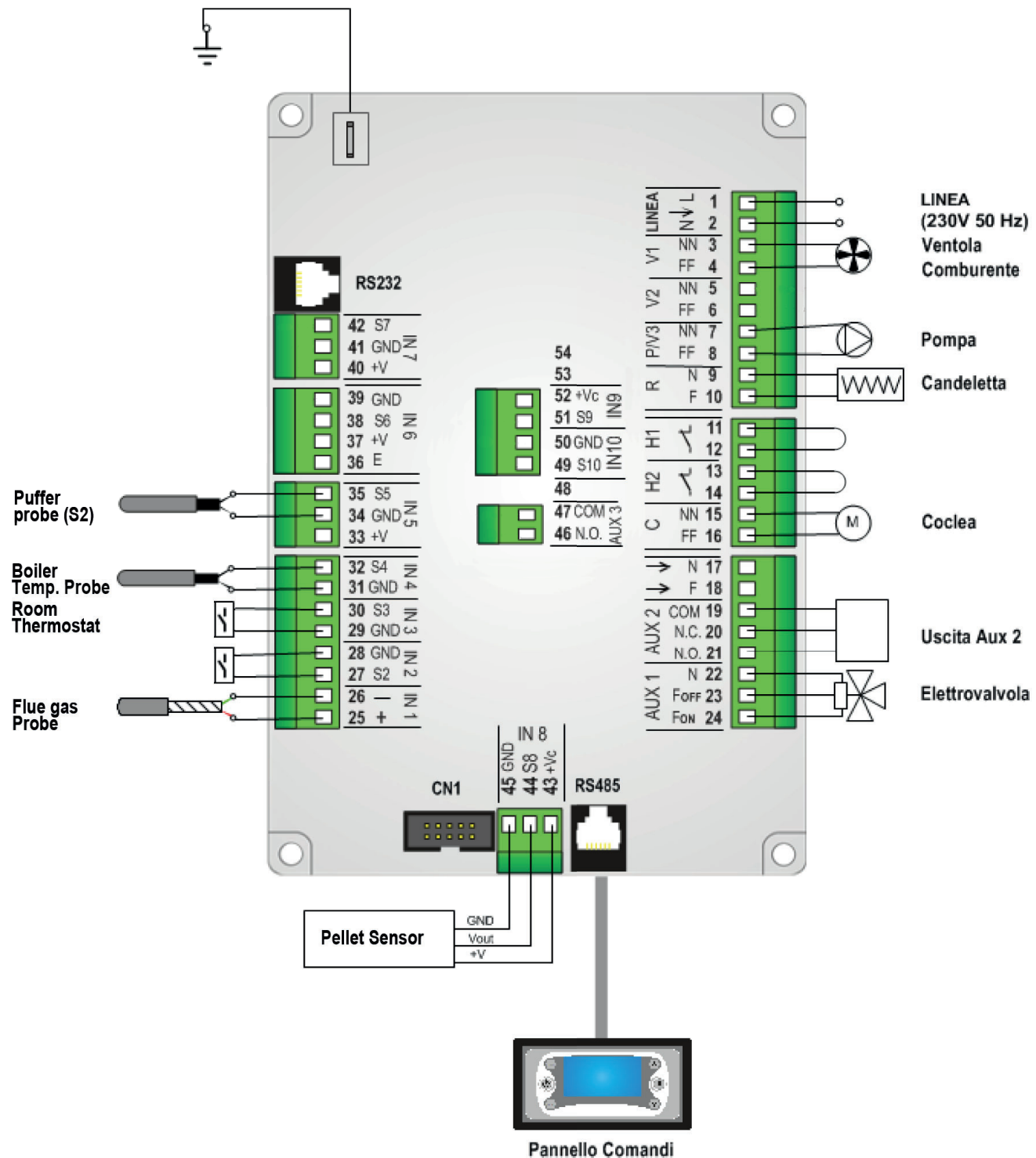
7.0 ELECTRICAL CONNECTIONS DIAGRAM



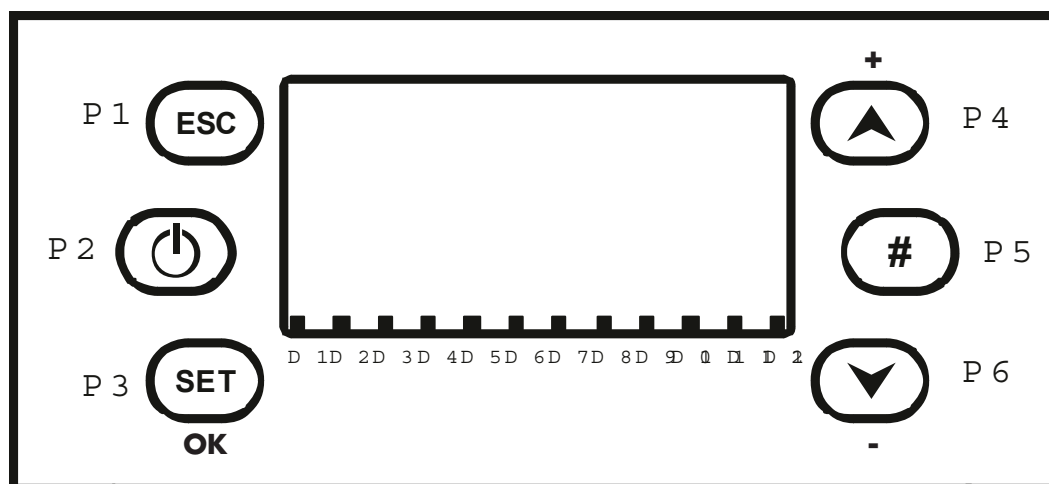
ATTENTION!

All electrical connections must be made by authorized and specialized personnel.

Check the correct power supply voltage (230 VAC - 50 Hz) before connecting the equipment to the power supply.



8.0 DISPLAY PANEL OF THE CARINCI MB 250 CONTROL UNIT



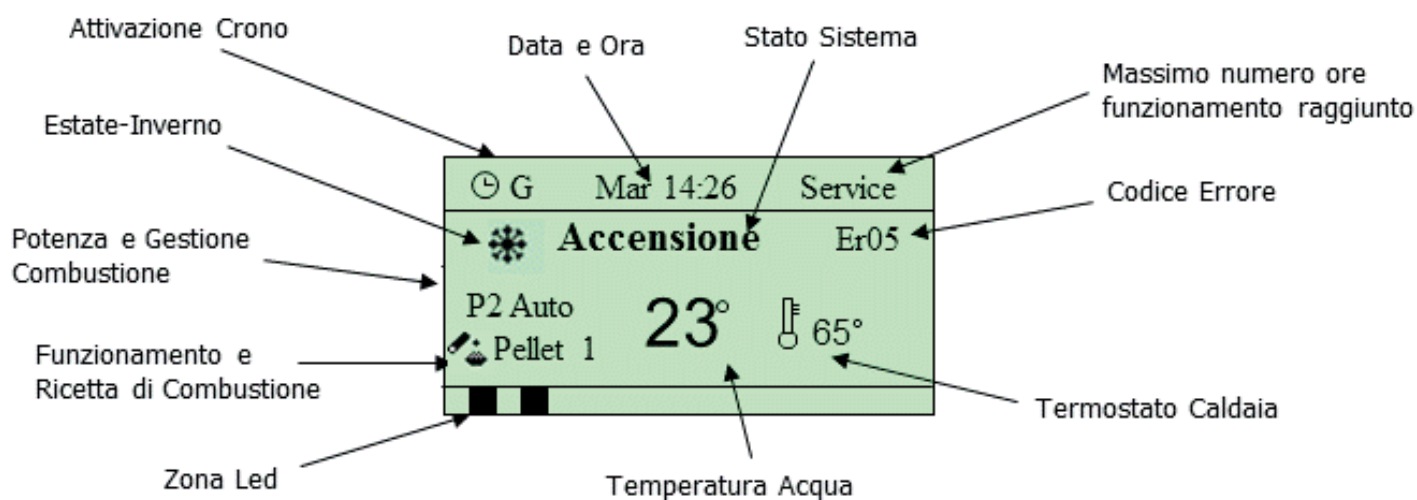
KEYS

Function	Description	Key
ON/OFF	Switch on and off by pressing the key for 3 seconds until the acoustic signal is activated	P2
UNLOCK	Unlock the system by pressing the key for 3 seconds, until the acoustic signal is activated	P2
EDIT INFO VALUES MENU	Change the values of the info in Menu	P4
SCROLL OF MENU AND SUBMENU	In Menu scrolls through the Menus and Sub-menus	P6
VIEWS	Enter and scroll in the Views Menu	P6
EXIT	Exit function from a Menu or Submenu	P1
MENU	To enter a Menu or in the Submenus	P3
EDIT	Enter into edit mode in the Menus	P3
SET	Saving data in Menu	P3
RESET CLEANING FUNCTION	Timer reset	P5
OPERATING MODE	Only in OFF mode allows to modify the operating mode PELLET - WOOD - COMBI	P5

LED

Function	Description	Key
GLOW PLUG	LED ON: Glow plug lit	L1
AUGER	LED ON: Auger active	L2
PUMP	LED ON: Pump active	L3
VALVE	LED ON: Valve active	L4
V2 OUTPUT	LED ON: Output V2 active	L5
Aux2 OUTPUT	LED ON: Output Aux2 active	L6
Aux3 OUTPUT	LED ON: Output Aux3 active	L9
PELLET LEVEL	LED ON: The sensor signals a lack of fuel	L10
CHRONO THERMOSTAT	LED ON: Open contact	L11
FLOW SWITCH	LED ON: Domestic hot water request in progress (contact closed)	L12

8.1 DISPLAY



Info displayed on the main screen:

- Date and Time
- Chrono activation mode (G–Daily, S–Weekly, FS–Weekend)
- Power
- Automatic/Manual Combustion
- Combustion formulas
- Combined Operation
- Mode
- Summer/Winter
- Operating status of the system
- Error code occurred
- Thermostat value
- Boiler
- Temperature read by the boiler probe

Operating states displayed:

- Check Up
- Power on
- Stabilization
- Modulation
- Standby
- Normal
- Safety
- Shut down
- Ignition Recovery
- Block
- Turned off

8.2 MENU

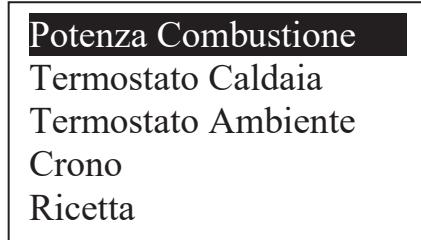
The electronic regulation used on the appliance is the same, both for wood operating and pellet operating.

Consequently, depending on the equipment, use only the specific referenced menu.

The Menu of the control panel consists of a User Menu which allows the end user to operate the system according to his needs and a Technical Menu in which the manufacturer can modify the operating parameters, carry out the operation of the outputs, check the system operation history.

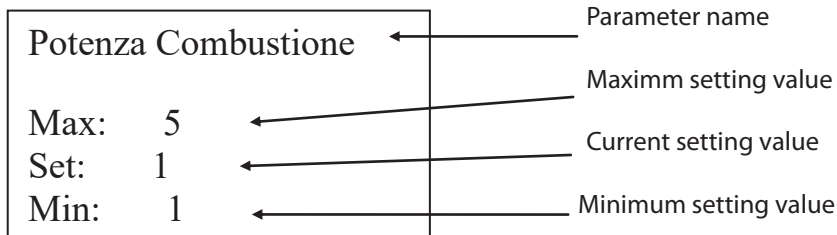
8.2.1 MENU OPERATIONS

Press the P3 key to open the first menu screen, consisting of the User Menu.



Using the P4 and P6 keys, the desired Menu item can be highlighted.

Press the P3 key to enter the highlighted submenu obtaining the list of submenus or the setting of the selected parameter (in this case Combustion Power).



The setting menu consists of the name of the parameter (first and second line), the minimum, the maximum and the current value ("Set").

Press the P3 key again to enter edit mode (the "Set" field flashes); use the P4 and P6 keys to increase or decrease the value:

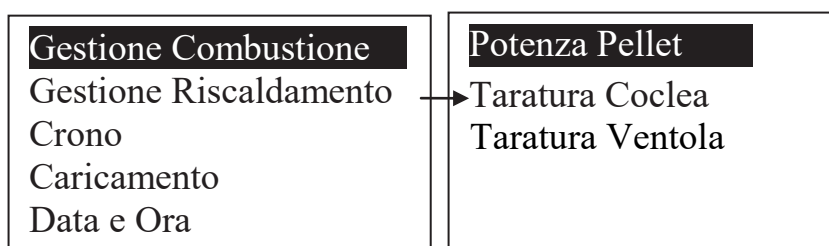
With the P3 key, the set value is stored, with P1 the operation is canceled and the value prior to the operation is restored. The new parameter value is then sent to the boiler: if the transmission fails (interference in the transmission cable), a message like this appears:

TRANSFER
FAILED

In this case, retry the modification of the parameter.

8.3 COMBUSTION MANAGEMENT MENU

Menu to modify the system combustion parameters. It consists of a few submenus.



8.3.1 PELLET POWER

Menu that allows you to set the management of the combustion of the system in Pellet mode. It is possible to choose between automatic and manual mode (in this case you can set the power).

Combustion	Description
1 ÷ 5	Manual adjustment of the power from 1 to 5 (modify with keys P4 or P6, to confirm press P3)
Auto	Power adjusted automatically by the system

8.3.2 AUGER CALIBRATION

Menu to change the working time or the auger speed. There are 10 steps available, 5 to increase and 5 to decrease. The 0 value corresponds to the value set in the laboratory. The calibration has an effect on the current setting and for the operating powers of the Normal and Modulation states.

Combustion	Description
- 5 ÷ 5	Manual adjustment of the power from -5 a +5 (modify with keys P4 or P6, to confirm press P3)

8.3.3 FAN CALIBRATION

Menu to change the working time or the fan speed. There are 10 steps available, 5 to increase and 5 to decrease. The 0 value corresponds to the value set in the laboratory. The calibration has an effect on the current setting and for the operating powers of the Normal and Modulation states.

Combustion	Description
- 5 ÷ 5	Manual adjustment of the power from -5 a +5 (modify with keys P4 or P6, to confirm press P3)

8.4 CHRONO MENU

Menu for setting the system times for turning on and off. The function is only available in pellet operation. The menu consists of two submenus: Mode and Program.

8.4.1 CHRONO MODE

Instructions	Keys	Display
The currently selected mode is highlighted		<div style="border: 1px solid black; padding: 5px;"> Disattivato Giornaliero Settimanale Fine Settimana </div>
Enter edit mode (the cursor highlighting the selected mode flashes)	P3	
Select the desired mode	P4 e P6	
Undo changes and restore the old mode	P1	
Store the new setting	P3	
Exit Menu	P1	

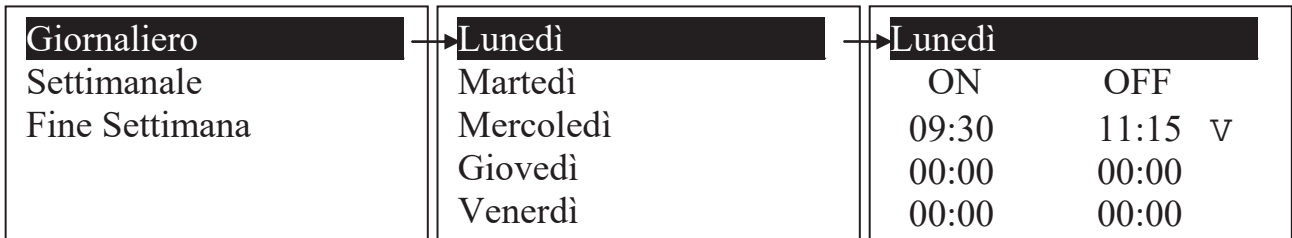
8.4.2 CHRONO PROGRAMMING

Selection of the program	Keys	Display
The currently selected mode is highlighted		<div style="border: 1px solid black; padding: 5px;"> Giornaliero Settimanale Fine Settimana </div>
Enter the submenu	P3	
Select the desired program	P4 e P6	
Exit Menu	P1	

The three types of programming are stored separately: if you adjust the Daily, for example, the other modes do not change. After programming to start the Boiler from Chrono, it is necessary to select the desired mode from the Chrono Mode submenu.

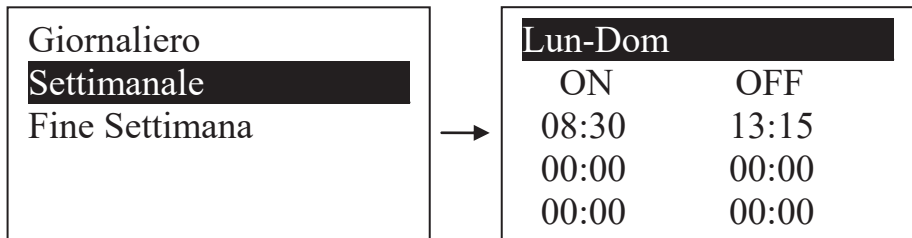
Choose the type of programming you are interested in setting:

- Daily: select the day of the week you want to program (3 on/off bands for each single day). Select a day of the week to see the prospect of the 3 ignitions.

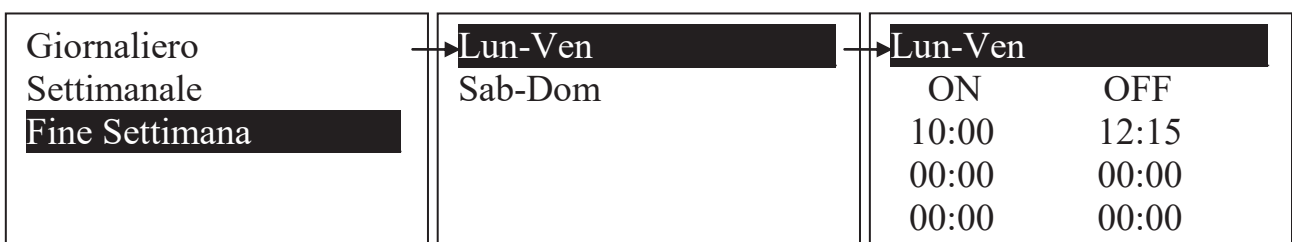


Programming at midnight: set the OFF time to 23:59 for a one day programming band and set the ON time to 00:00 for a programming band of the next day.

- Weekly: the time bands are modified directly (3 time bands for the full week):



- Weekend: you have the choice between the periods "Monday-Friday" and "Saturday-Sunday" (3 bands for the period "Monday-Friday" and 3 for "Saturday-Sunday").



Chrono Programming	Keys
After choosing the preferred program, select the time to be setted	P4 o P6
Enter edit mode (the selected time flashes)	P3
Change times	P4 o P6
Save the schedule	P3
Enable (a "V" is displayed) or disable the time slot (a "V" is not displayed)	P5
Exit	P1

8.5 MANUAL LOADING MENU

The Menu allows manual loading of the Auger.

Press P3 to enter editing (the cursor flashes). Press P4 and P6 keys to select the activation or deactivation of the Auger.

Press P3 to confirm and P1 to exit.

The system must be in the Off state for the function to be performed.

NOTE: In the case of manual activation of the Auger, the Flue gas Fan output is also activated to close the Pressure Switch contact, thus feeding the Auger.

8.6 DATE AND TIME MENU

Menu that allows you to set the current time and date.

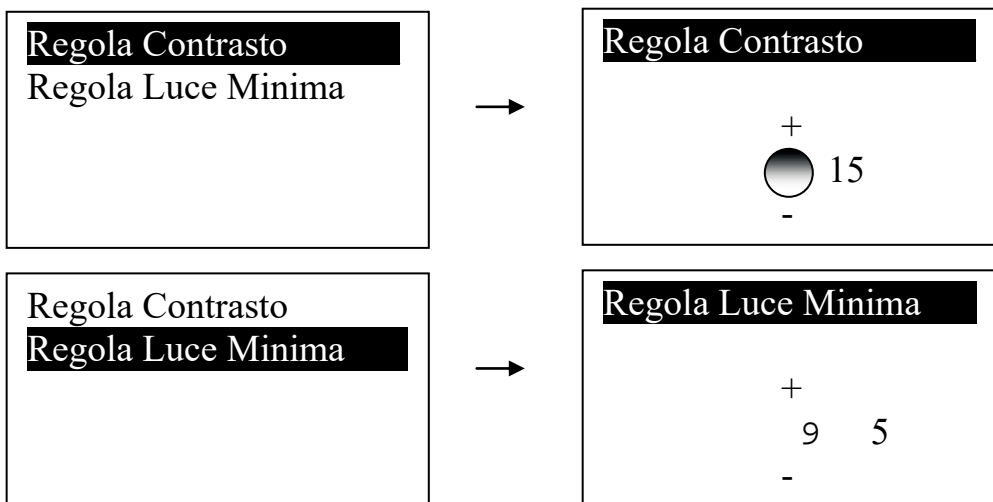
Press P4 and P6 keys to select hours, minutes or day of the week. Press P3 to enter modification (the cursor flashes), P4 and P6 to modify the value of the selected quantity. Press P3 to save the setting and P1 to exit.

8.7 LANGUAGE SELECTION MENU

Menu to change the language of the control panel. The highlighted language is the one currently set.

8.8 CONTRAST AND MINIMUM LIGHT ADJUSTMENT

MENU	DESCRIPTION
Adjust Contrast	Menu to adjust the display contrast
Adjust Minimum Light	Menu to adjust the display light



8.9 ERRORS

Operating states displayed:

All errors send the system in Block mode except for errors Er04 and Er05 which enter the system into Safety shutdown.

Code	Description	Reset
Er01	Error High voltage safety 1. It can also intervene with the system off.	1
Er02	Error High voltage safety 2. It can only intervene if the Combustion Fan is active.	-
Er03	Low flue gas temperature shutdown	2
Er04	Overtemperature shutdown	3
Er05	Shutdown for high flue gas temperature	4
Er07	Encoder Error. The error can occur due to the lack of Encoder signal	-
Er08	Encoder Error. The error can occur due to speed adjustment problems	-
Er09	Low water pressure	-
Er10	High water temperature	-
Er11	Clock Error. The error occurs due to problems with the internal clock.	-
Er12	Shutdown for ignition failure	2
Er15	Shutdown due to power failure for more than 50 minutes	-
Er16	Error communication RS485	-
Er17	Air flow adjustment failure	-
Er18	Lack of Pellet	-
Er23	Boiler Probe or Return Boiler Probe or Puffer Probe open	-
Er25	Cleaning motor Brazier broken	-
Er26	Cleaning motor broken	-
Er27	Cleaning motor 2 broken	-
Er34	Depression below the minimum threshold	-
Er35	Depression above the maximum threshold	-
Er39	Flow switch sensor broken	-
Er41	Minimum air flow in Check Up not reached	-
Er42	Maximum air flow exceeded (F40)	-

Other messages:

Code	Description	Reset
Sond (Probe)	Display of the temperature probes status. The message is displayed during the Check Up phase and indicates that the temperature read on one or more probes is equal to the minimum or maximum value (depending on the probe considered). Check that the probes are not open (reading of the minimum value of the temperature scale), or in short circuit (reading of the maximum value of the temperature scale).	5
Service	Message indicating that the programmed operating hours have been reached (parameter T66). It is necessary to call for assistance.	-
Pulizia (Cleaning)	Message indicating that the programmed operating hours have been reached (parameter T67). It is necessary to clean the stove or boiler.	-
Blocco Accensione (Ignition Blocked)	Message that appears if the system is not turned off manually during the Power-up phase (after Preloading): the system will turn off only when it has reached full capacity.	-
Er20	Grid sensor closed with system in pellet operation	-
Port	Door open	-
Er06	Pellet thermostat open	-
Link Error	No communication between keyboard and control board or program failure - contact T.A.S.	5

RESET Legend:

- 1) Activate the manual reset key, then press the P2 key for 3 seconds until the acoustic signal is heard and the display shows the message UNLOCK SUCCESSFUL. Proceed with restarting the ignition cycle.
- 2) Press the P2 key for 3 seconds until the acoustic signal is heard and the message UNLOCK SUCCESSFUL appears on the display. Proceed with restarting the ignition cycle.
- 3) Wait for the temperature of the water in the boiler to drop, then press the P2 key for 3 seconds until the acoustic signal is heard and the display shows the message UNLOCK SUCCESSFUL. Proceed to restart.
- 4) Wait for the temperature of the water in the boiler to drop, then press the P2 key for 3 seconds until the acoustic signal is heard and the display shows the message UNLOCK SUCCESSFUL. Proceed to restart.
- 5) SERIOUS ANOMALY - Contact the authorized technical assistance service.

9.0 MAINTENANCE

For the proper functioning of the equipment, it is essential to perform both recurring cleaning operations and ordinary maintenance activities.

Notice: In case of extraordinary maintenance it is advisable to contact the Carinci Group S.p.A. technical service for the appointment of specialized personnel to perform the requested intervention.



ATTENTION!

Before carrying out any type of intervention, make sure that:

- The equipment is electrically disconnected from the power supply;
- The equipment is completely cold in all its parts;
- The ash deposits are completely cold;
- Individual protective devices have been worn (such as gloves, masks, etc.)

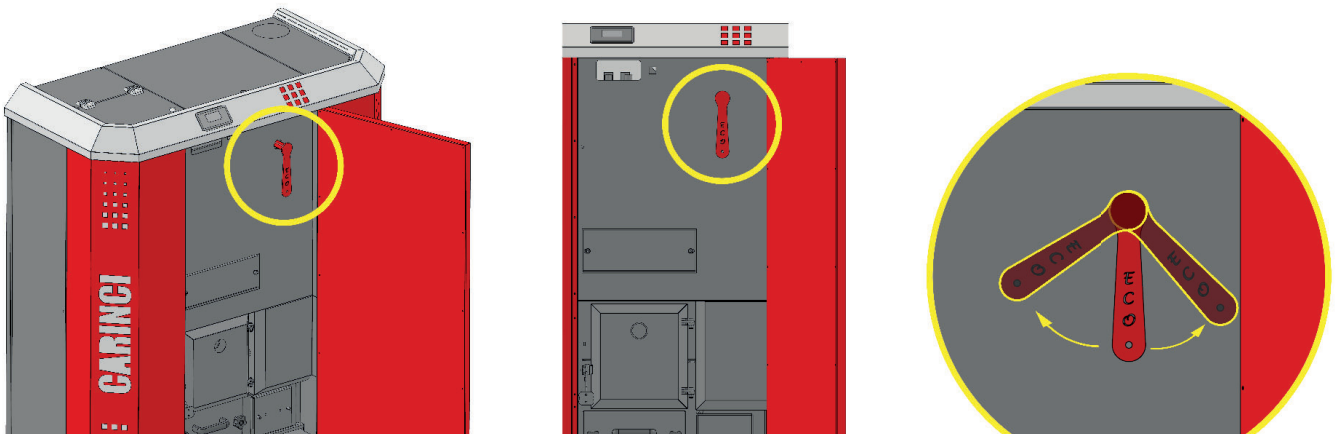
10.0 CLEANING OF THE APPLIANCE

Below you will find information on how to carry out the cleaning procedures for the ECO Boiler.

Heat Exchangers

Cleaning of the heat exchangers is carried out as follows:

- Open the front door of the boiler;
- Pick up the handle needed for cleaning the exchangers supplied with the boiler;
- Insert the handle in the appropriate compartment and then rotate left and right a dozen times;
- Once cleaned, pull out the handle and close the boiler door.



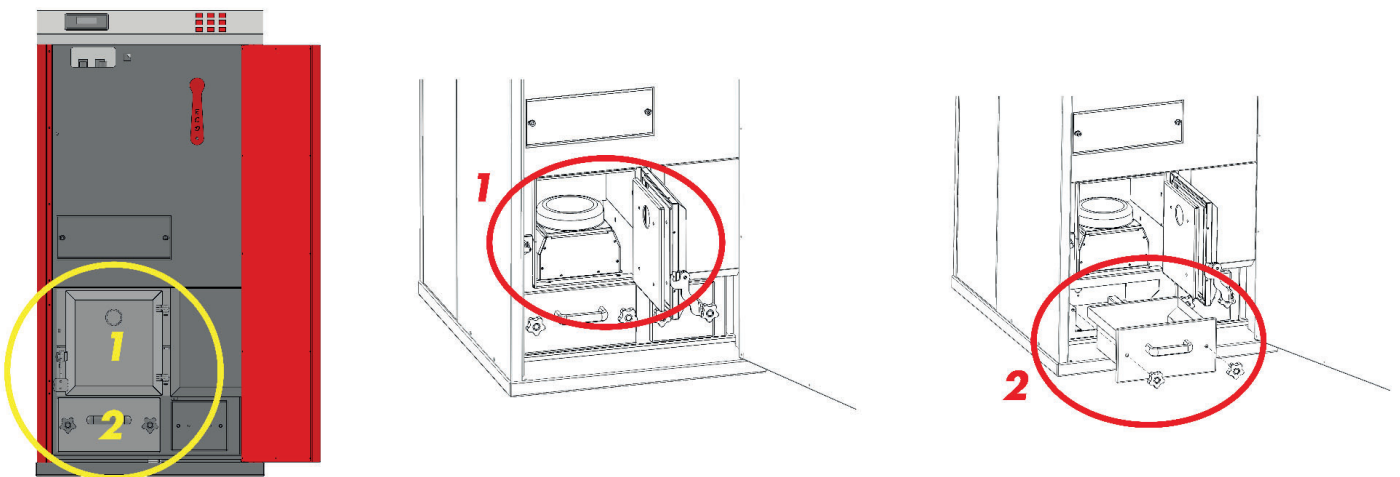
ATTENTION!

The cleaning of the heat exchangers must be carried out at least once a year by a qualified technician (T.A.C. Carinci) who will carry out the annual inspection of the boiler to verify its correct operation.

Combustion chamber and ash drawer

Proceed to clean the combustion chamber as follows:

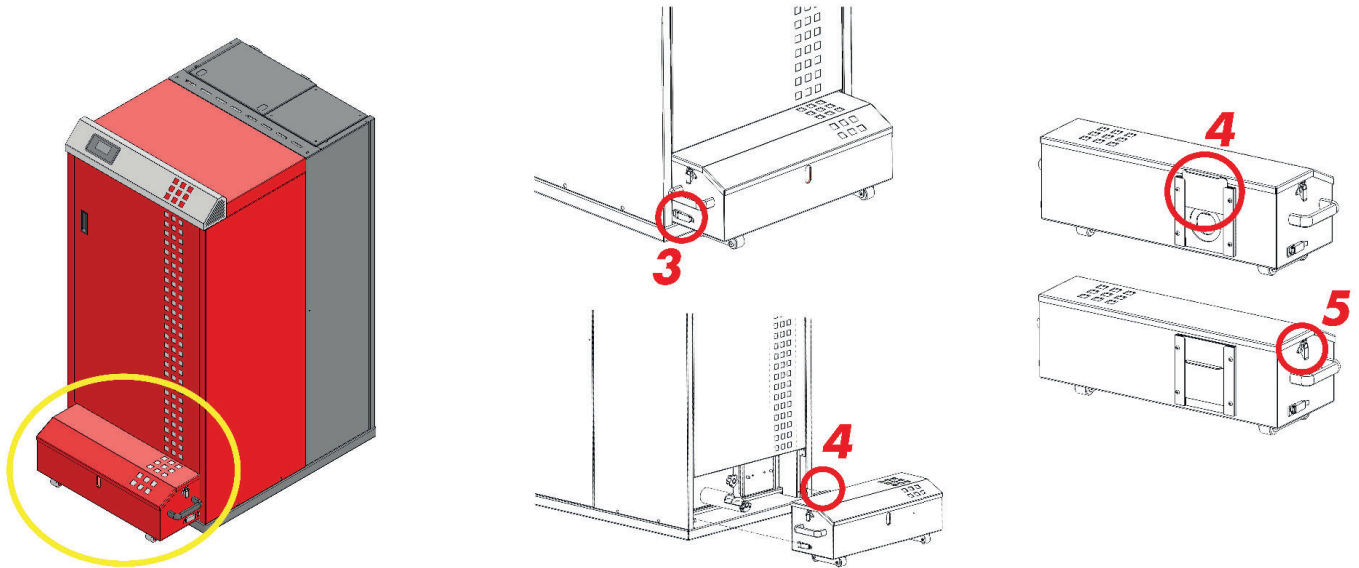
- Open the external door of the boiler;



- Then open the door n.1. With a scraper carefully clean the crown with the crucible holes and the conical part of the crucible itself, then vacuum with a special ash aspirator all the residues inside the crucible;

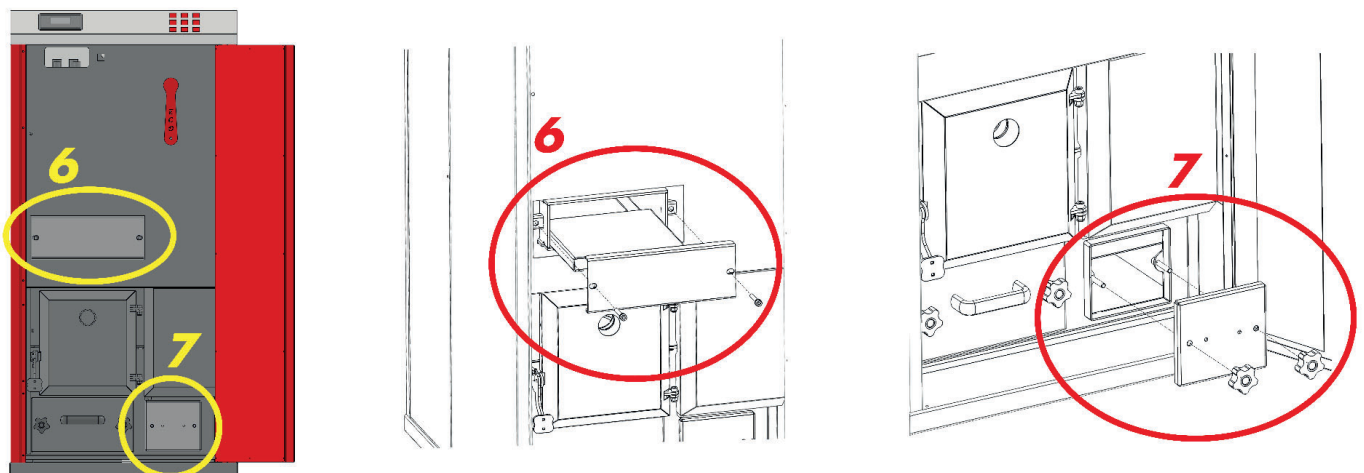
- Open drawer no. 2 unscrewing the two side knobs, empty the contents of the drawer into a special container, vacuum the ash residues into the compartment where you removed the drawer, then reinsert the drawer and screw the two knobs back on.

Ash Compactor (where applicable)



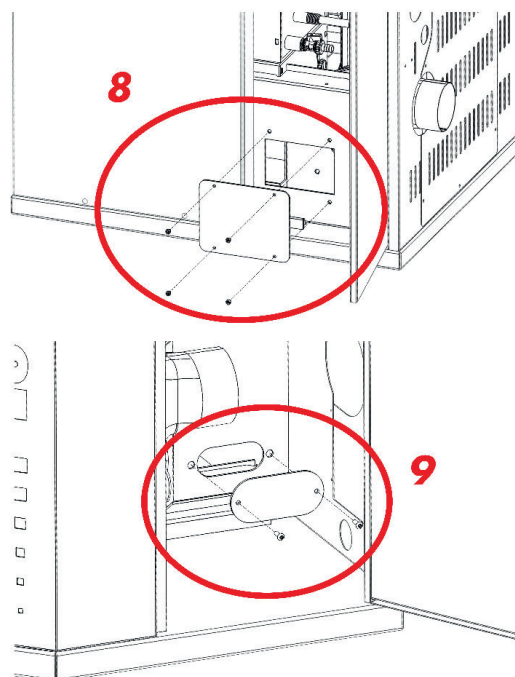
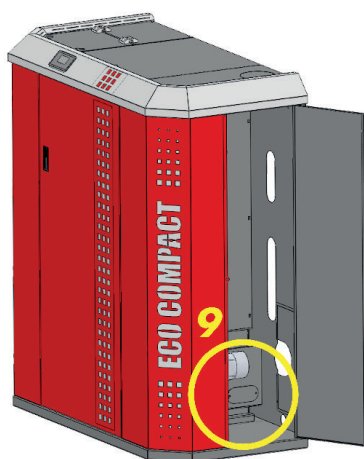
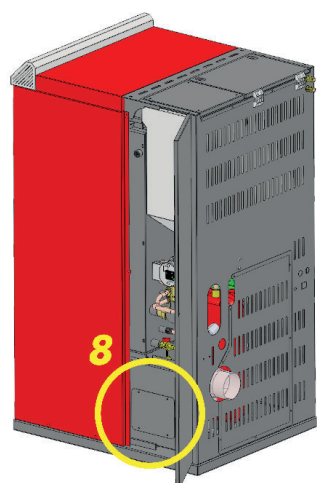
- Release the two catches located on the right and left side of the compactor ash drawer (n. 3);
- Lift the lever (# 4) upwards and pull the ash drawer by the handles outwards. Once the drawer has been removed, pull the lever (# 4) downwards to close the opening;
- Release the catches (# 5) and empty the contents of the drawer into a special container;
- To put back the drawer, perform the procedure in reverse.

Cleaning the ash collection compartment of the heat exchangers



- Open the external door of the Boiler;
- (# 6) Unscrew and remove the metal cover with an 8mm Allen wrench, then remove the steel panel with the scamolex inside, clean the panel and vacuum with the special aspirator inside the compartment. At the end, screw back the metal cover;
- (# 7) Unscrew the two knobs, remove the metal cover, then vacuum with the special aspirator inside the compartment and, at the end, perform the operations above in reverse to restore the initial conditions of the equipment.

Cleaning the flue gas extractor compartment



- Open the right side door of the Boiler;
- On the ECO boiler (n. 8) remove the four fixing screws, remove the metal plate and vacuum inside the compartment with the appropriate aspirator;
- On the ECO COMPACT boiler (n. 9) remove the two fixing screws, remove the metal plate and vacuum inside the compartment with the special aspirator;
- At the end, perform the operations above in reverse to restore the initial conditions of the equipment.

ATTENTION!

On the ECO COMPACT Boiler, if the TEE for the condensate collection inside the Boiler has the flue gas outlet higher, the access to the flue gas extractor for cleaning may be difficult.

For this reason we recommend a removable TEE for cleaning.

Inspection and cleaning of the flue gas duct

Periodically, it is necessary to inspect the "T" fitting placed on the flue gas duct by removing the airtight plug, unload any ash and carefully replace the cap with the gasket.

11.0 REFERENCE STANDARDS

The installation must comply with the standards:

- UNI 10683 (2012) heat generators powered by wood or other solid fuels up to 35 kW;
- UNI/TS 11278 (2008) Chimneys/ flue gas ducts/ducts/flue gas pipes in metal;
- UNI 7129 - 1/2/3/4.

The material must comply with the standards:

- UNI EN 1443 (2005) chimneys: general requirements;
- UNI EN 1856-1 Requirements for metal chimney systems;
- UNI EN 1856-2 Requirements for internal ducts and metal flue gas ducts.

NATIONAL, REGIONAL, PROVINCIAL AND MUNICIPAL REGULATIONS

It is also necessary to take into consideration all the national, regional, provincial and municipal laws and regulations present in the country in which the appliance is installed.

12.0 TERMINOLOGY (in alphabetical order)

Burner: Component in which the mixing of fuel and comburent takes place leads to the subsequent combustion.

Chimney: Vertical duct used for the expulsion of the gases produced by combustion.

Chimney pot: Element placed on the top of the chimney to protect against adverse weather conditions.

Condensate: Passage from the gaseous state to the liquid state of the combustion gases or from the relative humidity of the air in the environment where the appliance is located, caused by boiler body temperatures below the dew point.

Control unit: Adjustment for the electronic management of the devices of the generator.

Crucible: End part of the burner where combustion takes place.

Flue gas duct: Connection duct between the appliance and the chimney.

Flue gas evacuation system: Composite system suitable for the evacuation of flue gas consisting of a flue gas duct, a chimney and a chimney pot.

Puffer: Technical water tank for the storage of technical water produced by the equipment.

Reflux area: Area beyond the extrados of the roof where overpressures or depressions occur which can influence the correct evacuation of the combustion products.

Ventilation: Air exchange necessary to avoid gas saturation in the room where the equipment is installed.

Carinci Group SpA guarantee its equipment throughout the Italian territory in compliance with European Directive 99/44/EC (European Warranty). Our products are guaranteed from manufacturing flaws for 2 (two) years from the date of purchase, as provided in the European Warranty, only if proven by a fiscal purchase document and by the "Protocol of entry into service". During this period, at the discretion of Carinci Group SpA, the purchaser will be entitled, free of charge, to repairs or replacements of defective components with the exclusion of glass, bricks and refractory plates as they are subject to natural wear and tear. However, all wear components and all consumables are not subject to warranty. All warranty conditions are specified in the following articles:

Art. 1 - Product Conformity

- a. Carinci Group SpA guarantee the conformity of its equipment with the descriptions given in the information leaflets and user manuals.
- b. The Carinci Group SpA undertakes to resolve the defect and, where not possible, to withdraw and refund only the equipment not in compliance and only and exclusively if denounced within the period of 6 (six) months from the date of purchase. No further indemnification may be claimed from Carinci Group SpA, not even as compensation.

Art. 2 - Warranty Claim

Carinci Group SpA recognize a warranty claim only if

- a. The equipment has been installed by qualified and authorized personnel and, in general, in compliance with the relevant regulations and those contained in the "User's Manual" supplied with the equipment.
- b. Carinci Group SpA have received, within 10 days by registered letter A/R, the "Protocol of entry into service" together with the "Certificate of Warranty", duly completed in all their parts, stamped and signed by the authorized technician and signed by the end user;
- c. Preservation of the tax document has been fulfilled, proving the purchase and copy validated by Carinci Technical Assistance (C.A.T.) of the "General Conditions of Warranty" (Ref. Art. 2 par. b) and presented on request only to personnel authorized by Carinci Group;
- d. The equipment as been used as described in the "User Manual" supplied with the equipment purchased.

Art. 3 - Warranty Limitations

Carinci Group SpA will not recognize any warranty rights if one or more of the points listed below no longer apply:

- a. Damages caused by transport and not reported within 2 days of receipt.
- b. Damages caused by storage not compatible with the nature of the equipment itself.
- c. Damages not directly attributable to manufacturing defects, defects caused by incorrect installation, incorrect use, alterations of any nature and/or repairs carried out by personnel expressly not authorized by Carinci Group SpA.
- d. Damage to the boiler body caused by an operating pressure higher than 2 bar.
- e. Clogging of the copper exchanger for domestic use caused by the deposit of minerals, impurities, residues present in the water of the water system or any foreign element.
- f. Damage to the copper exchanger for domestic use caused by water hammer and pressure from the water system above 3 bar.
- g. Any water leaks due to the drilling of the boiler body caused by normal corrosive processes of the electrochemical, electrostatic type, stray currents, atmospheric agents, etc.
- h. For all defects or malfunctions on the electrical, electronic and mechanical components due to force majeure not foreseeable by Carinci Group SpA including, power surges, lightning, proximity to high voltage pylons or other devices in the environment, where the equipment is placed, which cause magnetic fields.
- i. Damages caused by inadequate electrical system and non-compliant earthing.
- j. For color variations, scratches or alterations to the painting due to normal use and high temperatures.
- k. For defects or malfunctions caused by: inadequate flue draft, installation of an unsuitable chimney pot, lack of necessary oxygen in the environment where the appliance is installed.
- l. For clogging of the heat exchangers caused by inappropriate use of the product or use of unsuitable fuel.
- m. Due to corrosion of the appliance caused by acidic condensate drained directly from the flue into the boiler body.

Art. 4 - Exclusions

Carinci Group SpA shall not recognize any warranty claim based on work carried out for:

- a. Malfunction caused by poor draught of the flue pipe;
- b. Malfunction caused by problems with the heating system;
- c. Malfunction caused by poor quality of the fuel used;
- d. Malfunction caused by the use of fuel other than the one recommended in the user manual;
- e. Malfunction caused by the presence of foreign objects in the equipment;
- f. Malfunction caused by encrustations occurred for not performing ordinary maintenance;
- g. Malfunction caused by improper use.

All costs incurred by the company in case of proven attributability to one of the mentioned points will be charged to the end user.

Art. 5 - Repairs or replacements

- a. All repairs or replacements made under warranty must be carried out exclusively by specialized personnel and previously authorized by Carinci Group.
- b. The repair or replacement under warranty does not result in an extension of the warranty period and, more explicitly, also any replaced or repaired components will have the same contractual expiration of the remaining components of the equipment.

Art. 6 - Costs

In the event of a manufacturing defect being detected, Carinci Group SpA shall bear the costs incurred solely for the repair or replacement of all items deemed to be defective. All other costs incurred, such as disassembly, replacement, any costs for masonry works or transport, shall be at the total expense of the customer.

Art. 7 - First Power on of the Equipment, adjustment and Warranty Validation

Any work carried out and specifically requested by Client, such as checks and adjustments of the parameters at the home of Client, shall be at Client's full expense.

Art. 8 - Liability limitations

- a. No compensation shall be granted for any period of inefficiency of the product.
- b. Damage caused directly and indirectly to persons, property or animals as a result of non-compliance with the articles in this document "General Conditions of Warranty" and the requirements in the "User Manual."

Art. 9 - Statement

The characteristics are described in the "User Manual" supplied with the equipment. The customer declares to have received, read and understood all its parts. The customer also declares to have understood the safety rules and the necessary precautions for the use of the equipment and the ordinary maintenance, committing to their observation.

Art. 10 - Ownership

The warranty is nominal and belongs exclusively to the holder of the tax document proving the purchase and of the "Protocol of entry into service". It cannot be sold or transferred in any way to third parties. Therefore, only the owner of the equipment may request any **technical assistance services under warranty**.

Art. 11 - Court of Jurisdiction

Carinci Group SpA define and elect the court of Grosseto as the place of jurisdiction for any dispute.

WARRANTY CERTIFICATE

Client Data:

Name..... Surname.....

Address..... n°.....

ZIP CODE CITYCOUNTRYPHONE.....

Analytical data of the equipment:

Retailer:	Model	Serial Number

Installer Data:

Company..... Date of enter into service of the generator/...../.....

Name..... Surname.....

Address..... n°..... ZIP CODE

ZIP CODE CITYCOUNTRYPHONE.....

The customer declares under his own responsibility to be in possession of all his systems' certifications and that their installations have been performed to "rule of art" and in compliance with the specific referenced regulations.

CARINCI GROUP S.p.A. will not be liable for any malfunction resulting from inappropriate installations, which do not comply with the user manual and the relevant specifications, not certified and, more generally, to any other malfunction which is not only and exclusively attributable to the equipment.

I, the undersigned, user of the equipment, declare:

1. to have the installation conformity of the systems, according to the law.
2. to have received all relevant information for the correct use of the equipment.
3. to have received all relevant user manuals, to have read them and to have understood them in full
4. to be able to use the equipment.
5. to be aware that the equipment needs routine and extraordinary maintenance operations performed by qualified and specialized personnel.

I, the undersigned, owner and user of the product, declare to have understood the above, aware that in its absence, will forfeit the right of warranty of the equipment with all consequences of law, also referred to the civil liability towards third parties. I am also aware that the right of warranty will lapse even if the statements made to 1,2,3,4 and 5 prove not to be true.

I declare to be an autonomous and independent professional from Carinci Group S.p.A., in possession of adequate professional capacity and have every registration and authorization of law. I also consent to the processing and use of my personal data as provided by D. Lgs. 196/2003

I declare that I have read and understood in all its parts this form, that I have read the back with the General Conditions of Warranty" and that I have no reservation to make. I also consent to the processing and use of my personal data as provided by D. Lgs. 196/2003

Stamp & Signature

Stamp & Signature

MAILING ADDRESS FOR THE WARRANTY CERTIFICATE

CARINCI GROUP SpA - Administrative/Operational h.quarters: Via Felci (Industrial Area) - 03039 Sora (FR) • ITALY • Tel.: 0776/812704 • Fax: 0776/81439

Carinci Group SpA guarantee its equipment throughout the Italian territory in compliance with European Directive 99/44/EC (European Warranty).

Our products are guaranteed from manufacturing flaws for 2 (two) years from the date of purchase, as provided in the European Warranty, only if proven by a fiscal purchase document and by the "Protocol of entry into service". During this period, at the discretion of Carinci Group SpA, the purchaser will be entitled, free of charge, to repairs or replacements of defective components with the exclusion of glass, bricks and refractory plates as they are subject to natural wear and tear. However, all wear components and all consumables are not subject to warranty. All warranty conditions are specified in the following articles:

Art. 1 - Product Conformity

- a. Carinci Group SpA guarantee the conformity of its equipment with the descriptions given in the information leaflets and user manuals.
- b. The Carinci Group SpA undertakes to resolve the defect and, where not possible, to withdraw and refund only the equipment not in compliance and only and exclusively if denounced within the period of 6 (six) months from the date of purchase. No further indemnification may be claimed from Carinci Group SpA, not even as compensation.

Art. 2 - Warranty Claim

Carinci Group SpA recognize a warranty claim only if

- a. The equipment has been installed by qualified and authorized personnel and, in general, in compliance with the relevant regulations and those contained in the "User's Manual" supplied with the equipment.
- b. Carinci Group SpA have received, within 10 days by registered letter A/R, the "Protocol of entry into service" together with the "Certificate of Warranty", duly completed in all their parts, stamped and signed by the authorized technician and signed by the end user;
- c. Preservation of the tax document has been fulfilled, proving the purchase and copy validated by Carinci Technical Assistance (C.A.T.) of the "General Conditions of Warranty" (Ref. Art. 2 par. b) and presented on request only to personnel authorized by Carinci Group;
- d. The equipment as been used as described in the "User Manual" supplied with the equipment purchased.

Art. 3 - Warranty Limitations

Carinci Group SpA will not recognize any warranty rights if one or more of the points listed below no longer apply:

- a. Damages caused by transport and not reported within 2 days of receipt.
- b. Damages caused by storage not compatible with the nature of the equipment itself.
- c. Damages not directly attributable to manufacturing defects, defects caused by incorrect installation, incorrect use, alterations of any nature and/or repairs carried out by personnel expressly not authorized by Carinci Group SpA.
- d. Damage to the boiler body caused by an operating pressure higher than 2 bar.
- e. Clogging of the copper exchanger for domestic use caused by the deposit of minerals, impurities, residues present in the water of the water system or any foreign element.
- f. Damage to the copper exchanger for domestic use caused by water hammer and pressure from the water system above 3 bar.
- g. Any water leaks due to the drilling of the boiler body caused by normal corrosive processes of the electrochemical, electrostatic type, stray currents, atmospheric agents, etc.
- h. For all defects or malfunctions on the electrical, electronic and mechanical components due to force majeure not foreseeable by Carinci Group SpA including, power surges, lightning, proximity to high voltage pylons or other devices in the environment, where the equipment is placed, which cause magnetic fields.
- i. Damages caused by inadequate electrical system and non-compliant earthing.
- j. For color variations, scratches or alterations to the painting due to normal use and high temperatures.
- k. For defects or malfunctions caused by: inadequate flue draft, installation of an unsuitable chimney pot, lack of necessary oxygen in the environment where the appliance is installed.
- l. For clogging of the heat exchangers caused by inappropriate use of the product or use of unsuitable fuel.
- m. Due to corrosion of the appliance caused by acidic condensate drained directly from the flue into the boiler body.

Art. 4 - Exclusions

Carinci Group SpA shall not recognize any warranty claim based on work carried out for:

- a. Malfunction caused by poor draught of the flue pipe;
- b. Malfunction caused by problems with the heating system;
- c. Malfunction caused by poor quality of the fuel used;
- d. Malfunction caused by the use of fuel other than the one recommended in the user manual;
- e. Malfunction caused by the presence of foreign objects in the equipment;
- f. Malfunction caused by encrustations occurred for not performing ordinary maintenance;
- g. Malfunction caused by improper use.

All costs incurred by the company in case of proven attributability to one of the mentioned points will be charged to the end user.

Art. 5 - Repairs or replacements

- a. All repairs or replacements made under warranty must be carried out exclusively by specialized personnel and previously authorized by Carinci Group.
- b. The repair or replacement under warranty does not result in an extension of the warranty period and, more explicitly, also any replaced or repaired components will have the same contractual expiration of the remaining components of the equipment.

Art. 6 - Costs

In the event of a manufacturing defect being detected, Carinci Group SpA shall bear the costs incurred solely for the repair or replacement of all items deemed to be defective. All other costs incurred, such as disassembly, replacement, any costs for masonry works or transport, shall be at the total expense of the customer.

Art. 7 - First Power on of the Equipment, adjustment and Warranty Validation

Any work carried out and specifically requested by Client, such as checks and adjustments of the parameters at the home of Client, shall be at Client's full expense.

Art. 8 - Liability limitations

- a. No compensation shall be granted for any period of inefficiency of the product.
- b. Damage caused directly and indirectly to persons, property or animals as a result of non-compliance with the articles in this document "General Conditions of Warranty" and the requirements in the "User Manual."

Art. 9 - Statement

The characteristics are described in the "User Manual" supplied with the equipment. The customer declares to have received, read and understood all its parts. The customer also declares to have understood the safety rules and the necessary precautions for the use of the equipment and the ordinary maintenance, committing to their observation.

Art. 10 - Ownership

The warranty is nominal and belongs exclusively to the holder of the tax document proving the purchase and of the "Protocol of entry into service". It cannot be sold or transferred in any way to third parties. Therefore, only the owner of the equipment may request any **technical assistance services under warranty**.

Art. 11 - Court of Jurisdiction

Carinci Group SpA define and elect the court of Frosinone as the place of jurisdiction for any dispute.







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