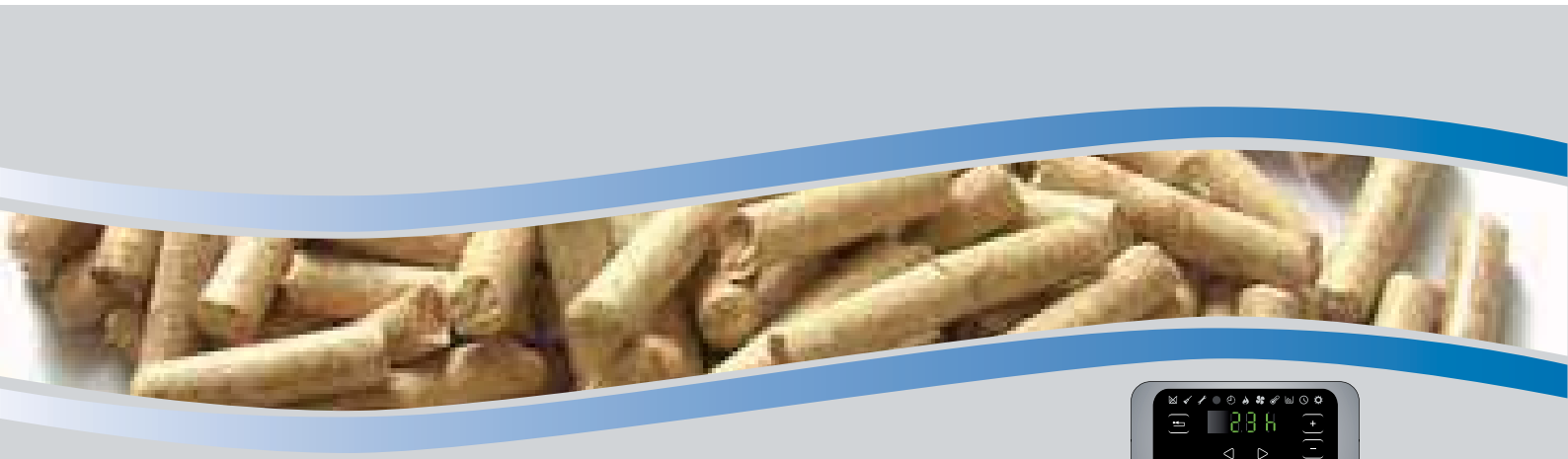
PALAZZETTI

IL CALORE CHE PIACE ALLA NATURA

MANUALE DI INSTALLAZIONE USO E MANUTENZIONE
INSTALLATION, USER AND MAINTENANCE MANUAL
INSTALLATIONS, BEDIENUNGS UND WARTUNGSANLEITUNGEN
NOTICE D'INSTALLATION
MANUAL DE INSTALACIÓN, USO Y MANTENIMIENTO

CALDAIA A PELLET
PELLET BOILER - PELLETKESSEL
CHAUDIÈRE À PELLET - CALDERA DE PELLET



EASY TOUCH

IT

GENTILE CLIENTE,
DESIDERIAMO INNANZITUTTO RINGRAZIARLA PER LA PREFERENZA CHE HA VOLUTO ACCORDARCI ACQUISTANDO IL NOSTRO PRODOTTO E CI CONGRATULIAMO CON LEI PER LA SCELTA.
PER CONSENTIRLE DI UTILIZZARE AL MEGLIO LA SUA NUOVA CALDAIA A PELLET, LA INVITIAMO A SEGUIRE ATTENTAMENTE QUANTO DESCRITTO NEL PRESENTE MANUALE.

GB

DEAR CUSTOMER,
WE'D LIKE TO THANK YOU FOR HAVING PURCHASED ONE OF OUR PRODUCTS AND CONGRATULATE YOU ON YOUR CHOICE.
TO MAKE SURE YOU GET THE MOST OUT OF YOUR NEW PELLET BOILER, PLEASE CAREFULLY FOLLOW THE INSTRUCTIONS PROVIDED IN THIS MANUAL.

DE

SEHR GEEHRTER KUNDE,
ZUALLERERST MÖCHTEN WIR IHNEN FÜR DEN UNS GEWÄHRTEN VORZUG DANKEN UND IHNEN ZUR WAHL GRATULIEREN.
DAMIT SIE IHREN NEUEN PELLETKESSEL SO GUT WIE MÖGLICH BENUTZEN KÖNNEN, BITTEN WIR SIE, DIE IN DIESER BEDIENUNGS- UND WARTUNGSANLEITUNG ENTHALTENEN ANGABEN GENAU ZU BEFOLGEN.

F

CHER CLIENT,
NOUS SOUHAITONS AVANT TOUT VOUS REMERCIER DE LA PRÉFÉRENCE QUE VOUS NOUS AVEZ ACCORDÉE EN ACHETANT NOTRE PRODUIT ET VOUS FÉLICITIONS POUR VOTRE CHOIX.
AFIN DE VOUS PERMETTRE DE PROFITER AU MIEUX DE VOTRE NOUVEAU CHAUDIÈRE À GRANULÉS, NOUS VOUS INVITONS À SUIVRE ATTENTIVEMENT LES INSTRUCTIONS REPORTÉES DANS CETTE NOTICE.

ES

ESTIMADO CLIENTE,
DESEAMOS AGRADECERLE POR LA PREFERENCIA QUE NOS HA OTORGADO ADQUIRIENDO NUESTRO PRODUCTO Y LO FELICITAMOS POR SU ELECCIÓN.
PARA EL MEJOR USO DE SU NUEVA CALDERA DE PELLETS, LO INVITAMOS A LEER CON ATENCIÓN CUANTO SE DESCRIBE EN EL PRESENTE MANUAL.

SUMMARY FOR SKILLS

USER

INSTALLER

ASSISTANCE CENTER

ELECTRICIAN

SHUNTER TRANSPORTER

cod. 004772540 - 05/2013 - Palazzetti - PN - Italy

INDEX

1 INTRODUCTION

PALAZZETTI heating appliances are built and tested in accordance with the safety requirements specified by the relevant European directives.

This manual is intended for owners, installers, users and maintenance personnel of the PALAZZETTI pellet boilers and is an integral part of the product. If there are any doubts regarding the contents of this manual, or for any other explanations please contact the manufacturer or an authorised service centre, quoting the paragraph number in question.

No printing, translation and reproduction of this manual, in part or whole, is allowed without the permission of PALAZZETTI. The technical information, illustrations and specifications included in this manual may not be disclosed.

Do not operate the appliance if any of the instructions provided in the manual are not understood; if there are any doubts always contact specialist PALAZZETTI personnel for explanations.

PALAZZETTI reserves the right to modify the technical and/or functional specifications of the boiler at any time, without prior notice.

1.1 SYMBOLS

The most important points in this manual are highlighted by the following symbols:

☞ **INSTRUCTION**: Instructions concerning correct boiler operation and the responsibilities of operators.

! **IMPORTANT**: This denotes very important information.

⚠ **DANGER**: This specifies the behaviour required to prevent accidents or damage to materials.

1.2 INTENDED USE

! PALAZZETTI pellet boiler is a product designed for heating the home, to be installed indoors, with automatic operation exclusively on wood pellets.

This product is classified as apparatus of type B. The appliance can be used to heat the water to a temperature lower than the boiling temperature. It should be connected to a heating system sized on the basis of its performance and its power. (see technical features).

The pellet boiler works only with the door of the firebox closed and should never be opened during operation

⚠ The appliance is not intended for use by people (including children) with limited physical, sensorial or mental abilities, or without sufficient experience or knowledge, unless they are supervised or instructed on the use of the appliance by a person responsible for their safety.

⚠ The intended use of the boiler described above and the configurations available are the only ones permitted by the manufacturer: never use the boiler in any way not described in the instructions provided.

1.3 PURPOSE AND CONTENTS OF THIS MANUAL

The purpose of this manual is to provide the fundamental and essential rules for correct installation, maintenance and use of the product. Carefully following these rules will ensure a high level of boiler safety and productivity.

1.4 HOW TO KEEP THIS MANUAL

Storage and reference

This manual must be kept with care and must be always available for reference by the user and by assembly and maintenance personnel.

The installation manual is an integral part of the boiler.

Damage or loss

If required, an additional copy can be ordered from PALAZZETTI.

Sale of the boiler

If the boiler is sold the user must also provide the new owner this manual.

1.5 UPDATES TO THE MANUAL

This manual represents the state-of-the-art at the time the boiler was introduced onto the market.

1.6 GENERAL INFORMATION

☞ The information given in this manual apply as a general rule, any Community legislation, national or municipal must still be complied with.

Requesting information

If information is requested from the manufacturer of the product, always refer to the serial number and other identifying data shown on the product's identification label.

Special maintenance

Special maintenance operations must be carried out by qualified personnel who are authorised to work on the model of boiler that this manual refers to.

Responsibility for installation

PALAZZETTI accepts no responsibility for the work carried out to install the producy; such responsibility lies with the installer, who is required to carry out checks on the flue and air intake and ensure installation is completed correctly. Furthermore, all safety standards required by relevant legislation in force in the country where the boiler is installed must be complied with.

Use

The boiler must only be used in compliance with the instructions provided in this manual, as well as with all safety standards required by relevant legislation in force in the country where the boiler is installed.

1.7 MAIN REFERENCE STANDARDS

A) **Directive 2006/95/EC**: “Electrical equipment designed for use within certain voltage limits”.

B) **Machinery Directive 2006/42/EC**

C) **Directive 2004/108/EC**: “Approximation of the laws of the Member States relating to electromagnetic compatibility”.

D) **Directive 89/391/EEC**: “Introduction of measures to encourage improvements in the safety and health of workers at work”.

E) **Directive 89/106/EEC**: “Approximation of the laws, regulations and administrative provisions of the Member States relating to construction products”.

F) **Directive 85/374/EEC**: “Approximation of the laws, regulations and administrative provisions of the Member States concerning liability for defective products”.

G) **Directive 1999/5/EC**: “Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity”.

H) **Standard EN 303-5-2012: Concerning heating boilers for solid fuels - Heating boilers for solid fuels, hand and automatically stoked, nominal heat output up to 500 kW".**

1.8 PRODUCT WARRANTY

In order to make use of the product warranty pursuant to Directive 1999/44/EC, users must fully comply with the instructions specified in this manual, and specifically:

- always use the boiler within its operating limits;
- always carry out regular and thorough maintenance;
- allow the boiler to be used by people of proven ability, attitude and suitably trained for the purpose;
- use original spare parts made specifically for the model of boiler in question.

In addition, the following must be provided:

- tax receipt showing the purchase date.
- certificate of conformity of installation issued by the installer.

Failure to follow the instructions provided in this manual will render the warranty void.

1.9 MANUFACTURER’S LIABILITY

By providing this manual, PALAZZETTI declines all liability, both civil and criminal, direct or indirect, deriving from:

- installation not in compliance with the standards in force in the country concerned and with safety directives;
- partial or total failure to follow the instructions provided in this manual;
- installation by unqualified and untrained personnel;
- use not in compliance with safety directives;
- modifications and repairs on the boiler that are not authorised by the manufacturer;
- use of spare parts that are not original or not specific for the model of boiler;
- lack of maintenance;
- exceptional events.

1.10 INTENDED USERS

The user of the boiler must be a responsible adult with sufficient technical knowledge to carry out routine maintenance on the parts of the boiler.

Make sure children do not play close to the boiler while it’s operating.

1.11 TECHNICAL SERVICE

PALAZZETTI has an extensive network of service centres staffed by specialists trained directly by the company.

Please contact our head office or sales network for details of your nearest authorised service centre.

The company forum: http://forum.palazzetti.it offers access to a vast amount of information and allows users to exchange ideas, opinions and suggestions.

1.12 SPARE PARTS

Only use original spare parts.

Do not wait for components to become worn out before replacing them.

Replace a worn component before it malfunctions helps prevent accidents due to sudden breakages, which may cause serious harm to people and things.

Perform the periodical maintenance checks as described in the chapter on “Maintenance”.

1.13 IDENTIFICATION LABEL

The serial number plate on the boiler shows all the typical product data, including the manufacturer’s details, the serial number and CE markings.

1.14 DELIVERY OF THE BOILER

The boiler is delivered packaged and secured to a wooden pallet for handling by forklift and/or other equipment.

The following material is provided inside the boiler:

- installation, user and maintenance manual;
- flue gas attachment.

2 SAFETY WARNINGS

2.1 INSTALLATION WARNINGS

Comply with the requirements specified in this manual.

The boiler assembly and dismantling instructions are reserved exclusively for specialist technicians.

Users should always contact our service centre to request work to be performed by qualified technicians. Before having work performed by other technical personnel verify their effective technical competence.

Responsibility for work carried out in the place where the boiler is installed lies with the user; the user is also responsible for making sure the installation checks are completed.

The user must abide by all local, national and European safety requirements.

The appliance must be installed on floors with a suitable load-bearing capacity.

⚠ Make sure that the flue and air intake duct arrangements correspond to the type of installation.

Do not make any electrical connections using temporary or uninsulated cables.

Make sure the electrical system is earthed correctly.

Before starting to assemble or dismantle the boiler, the installer must heed the safety precautions required by law, specifically:

A) do not work in adverse conditions;
B) always be in a fit mental-physical state for working and make sure that personal protective equipment is in perfect working order;
C) always wear safety gloves;
D) always wear safety shoes;
E) always use electrically insulated tools;
F) make sure that the area being used for assembly and dismantling is clear of any obstacles.

2.2 MAINTENANCE WARNINGS

⚠
- Comply with the requirements specified in this manual.
- Use always personal protective equipment and other means of protection.
- Before starting any maintenance work make sure that the boiler, if it had been operating, has cooled down.
- If even just one of the safety devices is not calibrated or not working, the boiler must be considered out-of-service.
- Disconnect power before working on electrical or electronic parts and connectors.

2.3 WARNING FOR THE USER

⚠
- Prepare the boiler installation site in accordance with local, national and European regulations.
- As the boiler is a heating appliance it has very hot outside surfaces. For this reason maximum care must be paid during operation, specifically:
- do not touch or get too close to the door to avoid getting burned;
- do not touch the flue;
- do not perform any type of cleaning;
- do not remove the ash;
- do not open the door;
- do not open the ash bin;
- make sure children keep away from the boiler.
- Comply with the requirements specified in this manual.
- Follow the instructions and warnings highlighted on the metal labels affixed to the boiler.
- These labels are safety devices, therefore they must always be perfectly legible. If damaged or illegible they must be replaced, contacting the manufacturer for an original spare label.
- Only use fuel compliant with the specifications shown in the corresponding chapter of this manual.
- Strictly follow the routine and special maintenance plan.
- Do not use the boiler without first having performed the daily inspection as specified in the chapter on “Maintenance” in this manual.
- Do not use the boiler in the event of malfunctions, suspected breakage or unusual noises.
- Do not pour or spray water onto the boiler when operating or to extinguish the flame in the burn pot.
- Do not switch the boiler off by unplugging the power cord.
- Do not rest your weight on the open door as this may affect stability.
- Do not use the boiler in any way as a support or anchor.
- Do not clean the boiler until the structure and ash have completely cooled down.
- Touch doors only when the boiler has cooled down.
- Perform all operations without haste, in such a way as to ensure maximum safety.
- In the event of fire in the chimney switch the boiler off using the procedure described later.
- In the event of boiler malfunctions due to flues with incorrect draught, clean the flue according to the procedure described in the Maintenance chapter.
- The flue must be cleaned as described in the Maintenance chapter.
- Do not touch the painted parts during operation to avoid damaging the paintwork.

3 FUEL SPECIFICATIONS

3.1 FUEL SPECIFICATIONS

Pellets (Fig. 3.1) are made from various types of mechanically compacted wood in compliance with environmental protection standards. Pellets are the only fuel that can be used on this type of boiler.

The efficiency and heat output of the boiler may vary in relation to the type and quality of pellets used.

The pellet boiler requires pellets with the following characteristics:

- diameter ~ 6 mm;
- max. length 30 mm;
- max. moisture content ≤ 12 %;
- ash content ≤ 0,5%;
- calorific value* >17 MJ/kg.

* dry base

The boiler has a pellet hopper with the capacity specified in the technical data table.

The pellet hopper is located at the top of the boiler. It must always be able to be opened to load the pellets, and must remain closed during operation.

⚠ Operation on traditional wood is not possible.

⚠ The boiler must not be used as a rubbish incinerator.

3.2 STORING THE PELLETS

! The pellets must be kept in a place that's dry and not too cold.

It's suggested to keep some sacks of pellets in the same room where the boiler is installed or an adjacent room, as long as the temperature and humidity are acceptable.

Damp and/or cold pellets (5°C) reduce the fuel heat value and mean the burn pot (unburned material) and boiler will need to be cleaned more frequently.

! Pay special care when storing and handling the sacks of pellets. Make sure these are not crushed to prevent the pellets from becoming sawdust.

Sawdust introduced into the hopper may block the pellet feed system.

Use of poor quality pellets may affect normal pellet boiler operation and render the warranty void.

The features of the pellets must comply with the requirements of EN 14961-2.

Fig. 3.1

4 HANDLING AND TRANSPORT

The boiler is delivered complete with all parts included.

Beware of the tendency of the boiler to tip over.

The boiler's centre of gravity is towards the front of the appliance.

Always keep this in mind when moving the boiler on the transport pallet.

When lifting avoid jolts or sudden movements.

Make sure that the forklift capacity exceeds the weight of the boiler being lifted.

The operator of the forklift or other hoisting equipment is responsible for lifting the loads.

⚠ Prevent children from playing with the packaging components (e.g. film and polystyrene). Danger of suffocation!

5 INSTALLATION SITE PREPARATION

5.1 GENERAL INFORMATION

The following paragraphs provide instructions that must be complied with in order to ensure maximum efficiency of the product purchased and safe operation.

The following instructions are however subordinate to compliance with any national, regional and local laws and standards in force in the country where the product is installed.

5.2 SAFETY PRECAUTIONS

Responsibility for work carried out in the place where the boiler is installed lies with the user; the user is also responsible for making sure the installation checks are completed.

The user must abide by all local, national and European safety requirements.

The appliance must be installed on floors with a suitable load-bearing capacity.

The boiler assembly and dismantling instructions are reserved exclusively for specialist technicians. Users should always contact our service centre to request work to be performed by qualified technicians.

Before having work performed by other technical personnel verify their effective technical competence. Before starting to assemble or dismantle the boiler, the installer must heed the safety precautions required by law, specifically:

A) do not work in adverse conditions;
B) always be in a fit mental-physical state for working and make sure that personal protective equipment is in perfectly working order;
C) always wear safety gloves;
D) always wear safety shoes;
E) always use electrically insulated tools;
F) make sure that the area being used for assembly and dismantling is clear of any obstacles.

5.3 BOILER INSTALLATION SITE

Fig. 5.1 and the corresponding table show the minimum clearances from objects expressed in centimetres that must be observed when positioning the boiler, to ensure safety and access for maintenance;

A) Adjacent wall.
B) Rear wall.
C) Side wall.
D) Protective flooring.

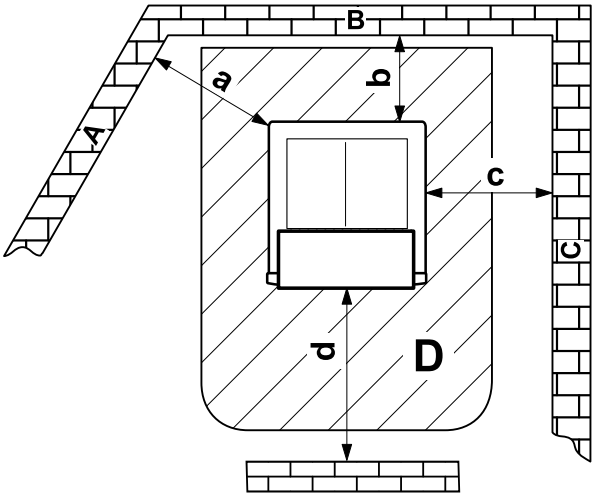


Fig. 5.1

a	b	c	d
cm			
60	60	60	100

Protect all structures that may catch fire if exposed to excessive heat for both the boiler and the flue gas attachment.

☞ Floors made from flammable materials such as: wood, parquet, linoleum, laminates or carpets must be protected by a suitably-sized fireproof base underneath boiler. Such base may be made from steel, slate, glass or stone and must cover the floor in the part underneath the boiler and the flue attachment, and must extend at least 50 cm at the front.

The manufacturer declines all liability for any alterations to the characteristics of the material making up the floor underneath the protective base.

Any elements made from wood (e.g. beams) or other combustible material located near the boiler should be protected with fireproof material.

Flammable walls or elements must be kept at least 80 cm away from the boiler.

! Leave enough clearance for maintenance work.

Make sure the minimum distance from flammable materials (x) is observed, as shown on the pipes used to make up the flue or chimney (Fig. 5.2).

Pi = Combustible wall

Pp = Floor protection

5.4 COMBUSTION AIR

! During operation the boiler takes in a certain amount of air from the room where it's installed; this air must be replaced through an opening to the outside from the room (Fig. 5.3 - PA = Fresh air vent).

If the wall behind of the boiler is an outside wall, make an opening for drawing in combustion air around 20-30 cm above the floor, observing the dimensions shown on the product data sheet at the end of this booklet.

In general, the minimum opening section required for the air intake must be 6 cm^2 per kW of power (minimum section possible 100 cm2) if near the floor, otherwise it must be increased by 50%.

A permanent non-closable vent cover must be placed on the outside of the opening; in especially windy areas or places exposed to bad weather, install rain and wind protection elements.

Make sure that the air vent is located in such a way that it can't be accidentally obstructed.

If it's not possible to make a fresh air opening in the wall behind the boiler (not a perimeter wall), an opening must be made on the wall in the room where the boiler is installed that faces the outside.

If no fresh air opening can be made in the room, it can be made in an adjacent room as long as the two rooms are connected by a ventilation grill (Fig. 5.4 - C = Shutter box, G = Grill, S = Shutters).

! Standard UNI 10683 prohibits combustion air being drawn in from garages, combustible material stores or places where there is a fire risk.

If there are other heating appliances in the same room, the fresh air vents must guarantee the required volume of air for correct operation of all the appliances.

If one or more exhaust fans (range hoods) are installed and operating in the room where the boiler is located, combustion problems may occur due to a lack of combustion air.

If in the room there are other generators, the total amount of burned power must not exceed 35 kW, and ventilation should be properly calculated based on the total of the power and the technical specifications of the generators.

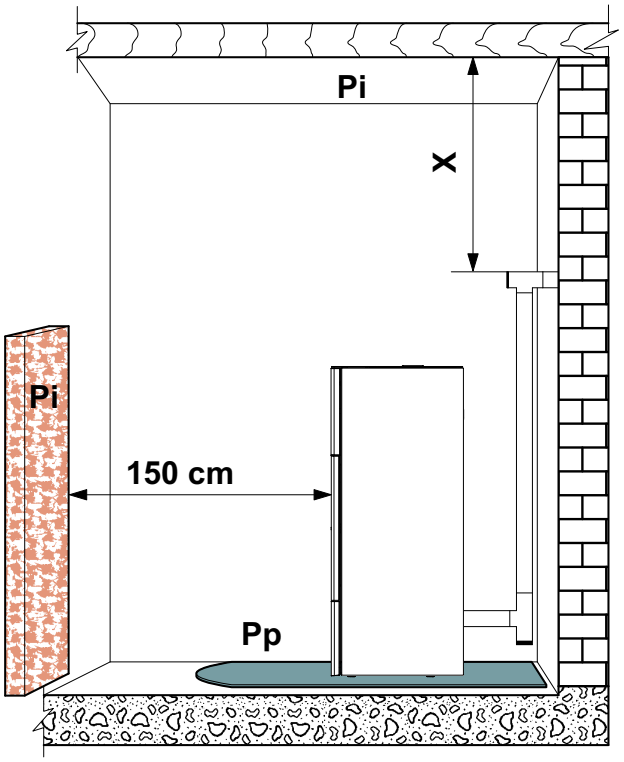


Fig. 5.2

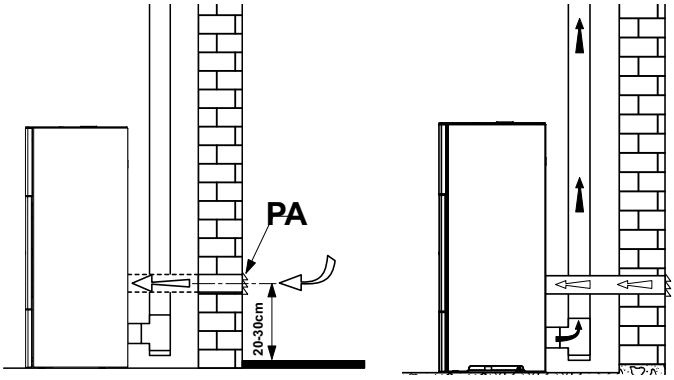


Fig. 5.3

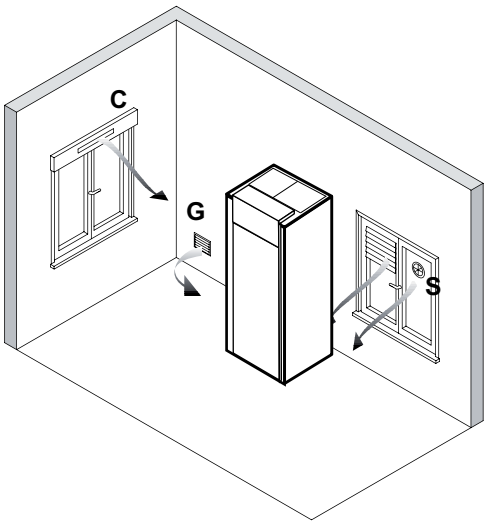


Fig. 5.4

5.5 FLUE GAS EXHAUST

The boiler is equipped with exhaust fan.

The boiler operates with negative pressure in the combustion chamber, and consequently the flue gas discharge must be airtight.

The boiler must be connected to its own separate flue gas exhaust system capable of ensuring adequate atmospheric dispersion of the combustion byproducts.

The components making up the flue gas exhaust system must be suitable for the specific operating conditions and bear the CE mark.

The pipes used to discharge the flue gas must have a nominal diameter of 10 cm (Fig. 5.5).

☞ The flues should be suitably insulated (e.g. using rock wool) or made using double wall steel pipes, except for the initial vertical section inside the room.

! An initial vertical section measuring a minimum of 1.5 metres is required to ensure correct flue gas exhaust.

For the flue dimensioning use 0Pa.

There should be at least three changes in direction along the flue, in addition to the flue connection at the rear of the boiler, using 45 angle connectors.

Use always a 'T' connector with inspection cap on all horizontal or vertical changes in flue direction.

☞ It is necessary to connect a pipe at the bottom of the „T" junction in order to discharge the smoke condensate that could form in the flue gas exhaust. (Fig. 5.6).

The maximum length of horizontal sections is 2-3 m with an upwards slope of 3-5% (Fig. 5.5).

Anchor the flues to the wall using special collars.

The flue gas exhaust attachment MUST NOT BE connected to:

- a chimney used by other heat generators (boilers, boilers, fireplaces, etc.....);
- air exhaust systems (range hoods, vents, etc.....) even if these are ducted.

Shut-off or draught valves must not be used.

Combustion byproducts must be discharged through the roof.

! If the flue is longer than 5 metres and there is insufficient draught (many changes in direction, unsuitable discharge terminal, etc.) flue gas exhaust may be less than optimum. In these cases, the operating parameters will need to be modified (flue gas exhaust and pellet load) to adapt the boiler to the actual characteristics of the flue. Contact technical service for this procedure.

! Make one or more holes – that must be sealed - on the exhaust pipe fitting to allow the control of the emissions after the installation.

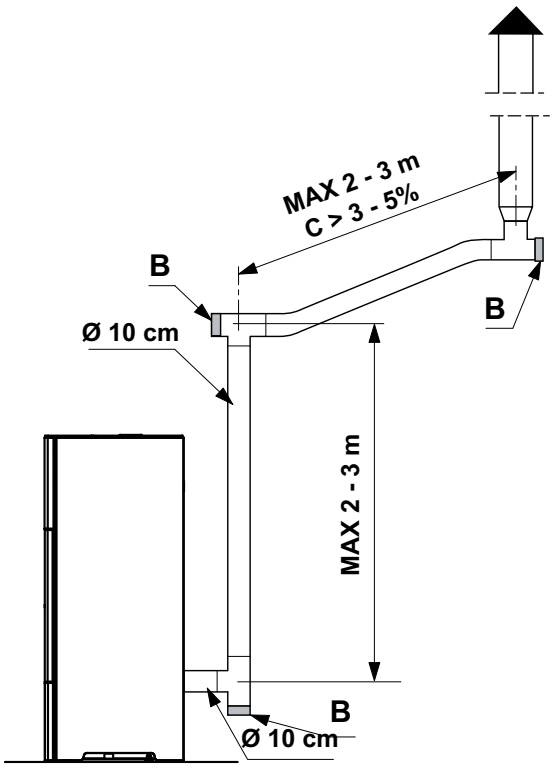


Fig. 5.5

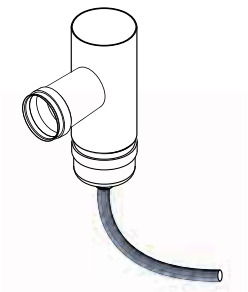


Fig. 5.6

5.5.1 Discharge through roof using a traditional chimney

The chimney used to discharge the flue gas must be made in accordance with standards UNI 10683 - EN 1856-1-2 - EN 1857 - EN 1443 - EN 13384-1-3 - EN 12391-1 both as regards the dimensions and the construction materials used.

DAMAGED chimneys made from unsuitable material (asbestos cement, galvanised steel, etc.... with a rough and porous inside surface) are prohibited by law and affect proper boiler operation.

The flue gas can be discharged through a traditional chimney (Fig. 5.8) as long as the following rules are observed:

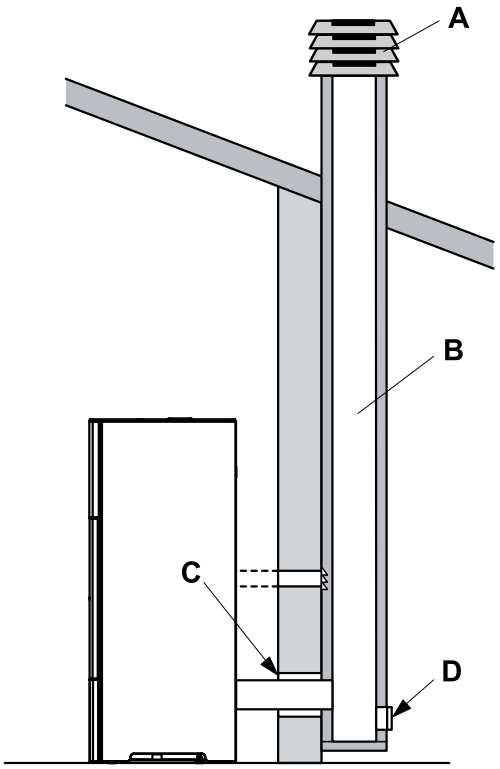
- check the conditions of the chimney; old chimneys should be renovated by introducing steel piping with suitable insulation (rock wool, vermiculite).
- the flue gas can be discharged directly into the chimney only if the latter has a maximum cross-section of 15 × 15 cm or diameter of 15 cm and features an inspection opening.

! For larger chimneys, suitably insulated steel pipes need to be inserted on the inside (diameter according to the length) (Fig. 5.9).

Makes sure connections to brick chimneys are suitably sealed.

Avoid contact with combustible materials (e.g. wooden beams) and in any case insulate these using fireproof material.

! If the flues run through wooden roofs or walls, special certified pass-through kits need to be used, available on the market.



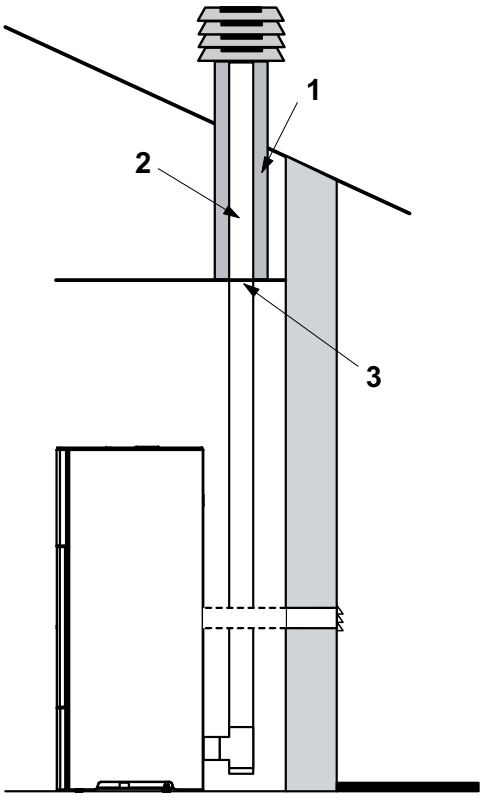
A) Chimney pot with wind protection

Fig. 5.8

B) Maximum cross-section of 15 × 15 cm or diameter of 15 cm and maximum height of 4- 5 metres

C) Seal

D) Inspection



1) Vermiculite and/or rock wool.
2) Steel pipes.
3) Closure panel.

Fig. 5.9

6 INSTALLATION

The boiler must be installed by qualified personnel in compliance with EN 10683, that must also provide verbal instructions to the user before using the appliance for the first time.

6.1 LEVELLING THE BOILER

The boiler must be levelled by adjusting the feet, then checked using a spirit level.

6.2 SYSTEM CONNECTIONS

6.2.1 Electrical connection

The boiler is connected to the electrical system simply using the plug supplied.

The electrical connection (plug) must be easily accessible when the boiler is installed.

! If the power cord is damaged it must be replaced by the technical service or a qualified technician, to prevent any kind of risk.

6.2.1.1 Earth

The system must be earthed and fitted with a residual current circuit-breaker in accordance with legislation in force (Fig. 6.2).

! The flue must have its own earth connection.

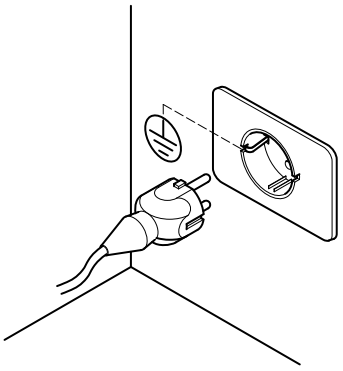


Fig. 6.2

6.2.2 Connection to an external timer thermostat

The boiler can be connected to an external timer thermostat that switches the boiler on or off according to the set temperature.

When the set temperature is reached the thermostat opens the circuit and consequently switches off the boiler.

The external thermostat is connected to the two terminals on the rear of the boiler, which are jumpered in the factory. Disconnect the jumper and connect the two thermostat contacts.

☞ The boiler must be set to configuration **1** following the instructions shown in the paragraph on “Initial configuration”.

! After first installing the timer thermostat, the boiler needs to be switched on manually, while the timer thermostat is in “call” status. This operation is also required in the event of power failures or if the boiler is switched off manually.

! To avoid overlapping the working time bands, it’s recommend to disable (set to OFF) the boiler’s timer (see par. 10.1).

6.2.3 Operation with room probe

In certain circumstances the boiler may need to modulate operation based on the temperature read by the room probe fitted on the boiler.

☞ The boiler must be set to configuration **2** following the instructions shown in paragraph 6.3.

6.2.4 Connection to a storage tank with coil

The boiler can be used to maintain the temperature inside a storage tank fitted with coil.

In this case simply disconnect the external temperature probe from the boiler and fit it in the probe socket on the storage tank.

☞ The boiler must be set to configuration 3 following the instructions shown in paragraph 6.3.

6.2.5 Connection to a storage tank without coil

The boiler can be used to maintain the temperature inside a storage tank without coil.

In this case simply disconnect the external temperature probe from the boiler and fit it in the probe socket on the storage tank.

☞ The boiler must be set to configuration **4** following the instructions shown in paragraph 6.3.

6.3 INITIAL CONFIGURATION

Depending on the type of installation, the best configuration needs to be selected for boiler operation.

Before proceeding, power up the boiler using the safety switch on the rear.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + − buttons to scroll to and select submenu [30]; "r---0" will flash on the display;
d) Press ↵ and enter the value "54" using the + − buttons;
e) Press ↵ to confirm;
f) The current configuration will be displayed;
g) To change the configuration, press ↵ and enter the value of the new configuration using the + − buttons;
h) Press ↵ to confirm.

! **After having changed the configuration a communication error message may be displayed for a few seconds. Ignore this and switch the boiler off using the safety switch on the rear, wait a few seconds and switch it back on..**

FOUR DIFFERENT CONFIGURATIONS ARE AVAILABLE:

CONFIGURATION 1

Set this configuration when the boiler is controlled by an external thermostat (or timer thermostat).

This configuration can also be used to switch the boiler on or off manually or by timer without using an external thermostat, but rather leaving the two terminals jumpered as per the factory setting.

In this configuration the boiler switches off when reaching the external thermostat setting or alternatively modulates output (to minimise fuel consumption) when reaching the set water temperature.

The boiler will turn off also in case the water temperature continues to rise despite the modulation. In this case, the boiler will turn on only if the temperature difference between the value you set up and the real one is higher than 20°C.

In this configuration, it is therefore recommended to regulate a high water temperature (ex. 70°C).

CONFIGURATION 2

Set this configuration to switch the boiler on or off manually or by timer when the boiler is connected directly to the central heating radiators.

The boiler will modulate output according to the room temperature read by the probe on the boiler.

The "Eco-mode" function can be used to have the boiler switch off or on based on the set room temperature.

The frost protection function can also be set in this configuration.

CONFIGURATION 3

Set this configuration when wanting to connect the boiler to a storage tank with coil.

The boiler will be controlled (switch on and off) based on the temperature read by the probe in the storage tank.

The frost protection function can also be set in this configuration.

CONFIGURATION 4

Set this configuration when wanting to connect the boiler to a storage tank without coil.

The boiler will switch on based on the temperature read by the probe in the storage tank, and will switch off based on the boiler return temperature.

The frost protection function can also be set in this configuration.

☞ **Some typical installation diagrams are shown on the last few pages of the booklet.**

USE AND & MAINTENANCE

7 BOILER DESCRIPTION

Before reading this booklet, check the description of the boiler provided in the “Product Booklet” enclosed.

7.1 CONTROL PANEL

The control panel consists of:

A) a top part with status LEDs and backlit icons that identify each function;
B) LED display;
C) ON button;
D) “Cancel” and display “error” button;
E) two arrow buttons to scroll between the various functions;
F) two buttons [+] and [–] to access the submenus and set the operating parameters;
G) an enter button [↵] o confirm the parameter or the settings.

☞ *All the buttons are capacitive, therefore the functions are activated without needing to press hard on the buttons, rather by just touching the surface.*

Fig. 7.1

7.1.1 STATUS LEDS

ICON	WARNING	DESCRIPTION
	Pellets running out	Indicates that the pellet hopper needs to be refilled.
	Maintenance	Indicates the need to perform maintenance
	Service	ndicates an error
	Remote control receiver	OPTIONAL
	Timer active	Indicates whether the timer function is active.
	Status LED (near the ⏻ button)	LED on steady: boiler on and operating LED flashing: boiler in the ignition stage or in standby LED off: boiler off

7.1.2 Description of the menus

ICON	FUNCTION	DESCRIPTION	VALUES
	Power	Stove output setting	1..5
	Fan	This parameter is not enabled on water heating models	
	Temperature	Displays the room temperature reading and is used to set the desired temperature.	6°C .. 51°C
	Fuel	Displays the operating autonomy and resets the value when filling the pellet hopper [FULL], or deactivates the warning [OFF]	FULL - OFF
	Timer	Enables or disables the timer. When enabled, the icon will be displayed steady (not flashing)	ON - OFF

ICON	FUNCTION	SUBMENU		DESCRIPTION	VALUES
	Setup	[1]	Weekly timer	Assigns the programs (max 3) to the different days of the week	[d1] ... [d7]
		[2]	Programs	Program setting menu	[P1] ... [P6]
		[3]	Time / date	Time and date setting	
		[4]	Hours remaining	Displays the number of hours remaining until recommended maintenance. When “Hi” is displayed, the remaining time exceeds 999 hours.	
		[5]	System information	Displays the current software version	
		[6]	Water temperature	It allows to set the desired temperature for the water supply (only in configuration 2).	60 ... 80°C
		[7]	Eco function	Enables or disables Eco Mode, in which the stove automatically switches off and on based on room temperature (only in configuration 2).	OFF; Eco
		[8]	Restart delta	Is the number of degrees centigrade below the switch-off temperature at which the stove switches on again automatically (except in configuration 1).	0,5 ... 5,0°C 0 ... 40°C
		[9]	Frost protection temperature	Minimum temperature below which the stove switches on (except in configuration 1).	OFF; 3 ... 20 °C OFF; 3 ... 50 °C
		[10]	Lock keypad	Disables the buttons on the keypad	OFF; Lo; Hi
		[11]	Display brightness	Sets display brightness	OFF; 1 ... 5
		[12]	Display mode	Sets how the data is displayed	OFF; 1 ... 4
		[13]	Buzzer volume	Sets the buzzer volume	OFF; 1 ... 5
		[14]	Type of pellets	Three different types of pellet can be set	1 ... 3
		[15]	External tank	Allows the activation of the manual loading from the external tank (optional).	
		[30]	Installer menu	Sets/displays the stove configuration	PWD: “54”
		[40]	Service menu	Menu reserved for the service centre	

Submenus [30] and [40] in the Setup menu are password-protected and reserved for service centre personnel.

7.2 USING THE CONTROL PANEL

- The arrow buttons ◁ ▷ are used to scroll between the different menus that are highlighted.
- When selecting a given function, simply press the ↵ button and then modify the values, again using the + − buttons.
- Pressing the ↵ button confirms the setting.
- In general all values that are flashing can be modified using the + − buttons.
- The “cancel” button ↩ is used to cancel any changes; pressing and holding the button displays any active alarm or error codes.

7.3 OPERATING PARAMETERS

Boiler operation is determined by the Power level and Temperature parameters set by the user.

7.3.1 setting the power level

The power level defines the amount of heat produced by the boiler and consequently directly affects fuel consumption.

a) Use the ◁ ▷ buttons to go to the power menu and press ↵ ;
b) The power level value will flash; set the value using the + - (buttons (**1** minimum,....**5** maximum)
c) Press ↵ to confirm the settings.

7.3.2 Setting the temperature

Different temperature values can be set depending on the boiler's configuration:

a) Use the ◁ ▷ buttons to go to the temperature menu and press ↵ ;
b) The current value will flash; change it using the + - buttons
c) Press ↵ to confirm the settings.

Water temperature (configurations 1 only): setting this value changes the desired hot water outlet temperature.

Room temperature (configuration 2 only): setting this value defines the desired room temperature, read directly by a probe fitted on the boiler.

Storage temperature (configurations 3 and 4 only): identifies the minimum desired temperature inside the storage tank.

8 PRELIMINARY OPERATIONS

8.1 LOADING THE PELLETS

The first operation to be performed before starting the appliance is to fill the hopper with fuel (pellets).

The pellets are loaded into in the hopper using a scoop.

Do not empty the sack directly into the hopper so as to avoid loading sawdust or other foreign bodies that may affect proper boiler operation and avoid spilling pellets outside of the hopper.

☞ Make sure the hopper lid is well closed again after having loaded the pellets.

At this point, to take advantage of the 'Autonomy' function, use the arrow buttons ◁ ▷ to move to the combustible icon and confirm by pressing ↵. Select "Full" by pressing + − and press the button ↵ to confirm.

In order to disable this function, select "Off" instead of "Full".

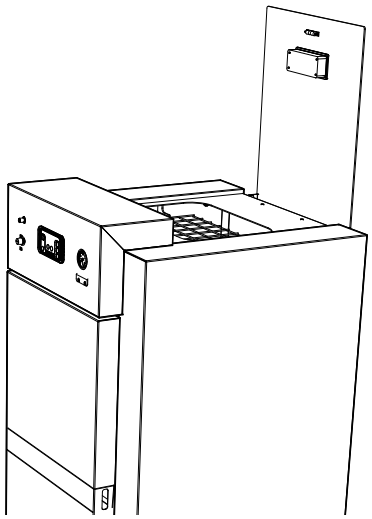


Fig. .1

8.2 POWER SUPPLY

Plug the boiler into the mains power supply, move the power switch at the rear of the boiler to position "I" (Fig. 8.2). If the connections are correct the boiler will emit a series of intermittent beeps, the display will come on.

! If not using the appliance for an extended period, the switch at the rear of the boiler should be moved to position (O).

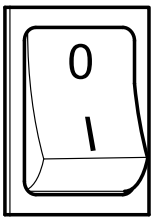


Fig. .2

8.3 INITIAL SETTINGS

The language, current date and time need to be set before using the boiler.

8.3.1 Time and Date setting

To set the date:

a) Use the ◁ ▷ buttons to go to the setup menu and press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [∃] and press ↵ to confirm;
d) The hour value will flash; set the value using the + − buttons and press ▷;
e) The minutes value will flash; set the value using the + − buttons and press ▷;
f) The day value will flash; set the value using the + − buttons and press ▷;
g) The month value will flash; set the value using the + − buttons and press ▷;
h) The year value will flash; set the value using the + − buttons and press ▷;
i) The current weekday value will flash (Monday = 1... Sunday = 7); set the value using the + − buttons;
j) Press ↵ to confirm the settings.

8.3.2 Setting the display mode

The data shown on the display when this is in standby mode can be set.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [12] and press ↵ to confirm;
d) Set one of the following values using the + and − buttons:

- **"OFF"** • The display remains on the last operation set by the user;
- **"1"** • All operating parameters are displayed cyclically;
- **"2"** • The room or water probe temperature is shown, based on the type of configuration
- **"3"** • The current time is shown
- **"4"** • The operating autonomy in hours before having to refill the hopper is shown, If the function "filling" has been activated.

e) Press ↵ to confirm the settings.

8.3.3 Setting the display brightnes

Display brightness when in standby mode can be set.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [11] and press ↵ to confirm;
d) Set the desired brightness (OFF, 1 . . . 5) using the + − buttons and press ↵ to confirm.

8.3.4 Setting the volume

The volume of the buzzer can be set based on requirements:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [13] and press ↵ to confirm;
d) Set the desired volume (OFF, 1 to 5) using the + − buttons and press ↵ to confirm.

8.3.5 Setting the type of pellets

The type of pellets used can be set:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [14] and press ↵ to confirm;
d) Set one of the following values using the + and − buttons:

- **"1"** • Small pellets
- **"2"** • Medium-sized pellets
- **"3"** • Large pellets

e) Press ↵ to confirm the settings.

9 BOILER OPERATION

9.1 STARTING THE BOILER

To start the boiler hold the ⏻ button for several seconds.

The flame icon will start flashing during the ignition stage until remaining on steady when the boiler has started.

! Automatic boiler ignition: the boiler comes with an automatic device that starts the pellet boiler without using other traditional fire lighters.

⚠ Avoid lighting the flame manually if the boiler's automatic ignition system is not working correctly.

! When the boiler is started the first time, unpleasant odours or smoke may be generated, caused by evaporation or drying of certain materials used. This phenomenon will gradually disappear.

The room should be well ventilated when starting the boiler the first few times.

9.2 MODIFYING THE PARAMETERS

The boiler operating parameters can be modified as described in paragraph 7.3.

☞ The values set will be retained until next modified, even when the boiler is switched off or unplugged from the power supply.

9.3 SWITCHING OFF

To switch the boiler off hold the ⏻ button for a few seconds; the flame icon will switch off.

☞ To start the boiler again it's recommended to wait for the boiler to cool down completely.

⚠ The boiler should only be switched off following the procedure described above. Never switch the boiler off by unplugging it from the power supply.

9.4 OPERATION WITH ROOM THERMOSTAT

When the boiler is controlled by an external thermostat (or timer thermostat), the installer must have set configuration 1.

In this configuration the boiler switches off when reaching the external thermostat setting or alternatively modulates output (that is, the boiler attempts to maintain the desired temperature while minimising fuel consumption) when reaching the set water temperature.

The boiler switches on again automatically when the temperature falls below the value set on the external thermostat (circuit closed).

☞ **On first ignition, or if the boiler has been switched off manually (⏻ button), the boiler needs to be started directly from the control panel.**

The boiler will go off automatically even in the case the water temperature keeps growing notwithstanding the modulation mode. In this case the boiler will ignite only if the difference between the selected and actual temperature is over 20°C.

Therefore, if you choose this configuration, we suggest that you select a high water temperature (e.g.. 70°C).

9.5 OPERATION WITH ROOM PROBE ON THE BOILER

The boiler can be switched on/off manually or in programmed mode.

In this type of configuration, the boiler modulates output according to the room temperature read by the probe on the boiler (that is, the boiler attempts to maintain the desired temperature while minimising fuel consumption).

If the user has enabled the "Eco-mode" function under submenu [7] of the setup menu ⚙, the boiler rather than modulating its output, switches off when reaching the set temperature, and switches on again when the room temperature falls below the delta set in submenu [7] of the setup menu ⚙.

The desired room temperature can be set in temperature menu 🌡.

Submenu [6] of the setup menu ⚙ can be used to set the desired water outlet temperature (the best temperature for the heating system in question should be suggested by the heating system installer).

9.6 OPERATION IN COMBINATION WITH A STORAGE TANK

For operation in combination with a storage tank, the installer will have set configuration 3 or 4, depending on whether the storage tank is with or without a coil inside.

The boiler is controlled based on the temperature read by the probe in the storage tank.

When reaching the storage tank temperature set in the temperature menu 🌡 the boiler switches off, and switches on again if the temperature falls below the delta set in submenu [8] of the setup menu ⚙.

The frost protection function can also be set in this configuration.

10 FUNCTIONS AVAILABLE

10.1 TIMER FUNCTION

It's possible to set, enable and assign to the various days of the week, customised programs for automatically switching the stove on and off.

Up to six customised programs can be set.

For each program, the following can be set: on time, off time and desired temperature.

Up to three programs can be assigned for each day of the week.

The days of the week are identified by numbers: Monday = "d1", Tuesday = "d2";...; Sunday = "d7"..

10.1.1 Setting the programs

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Select submenu [2] and confirm by pressing ↵;
d) Use the + − buttons to scroll the programs P1...P6;
e) The on hours value will flash; set the value using the + − buttons and press ▷;
f) The minutes value will flash; set the value using the + − buttons and press ▷;
g) The off hours value will flash; set the value using the + − buttons and press ▷;
h) The minutes value will flash; set the value using the + − buttons and press ▷;
i) The desired temperature value will flash; set the value using the + − buttons and press ▷;
j) Press ↵ to confirm the settings.

10.1.2 Assigning the programs to specific days

This function can be used to assign up to three different programs to a certain day.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Select submenu [1] and confirm by pressing ↵;
d) Use the ◁ ▷ buttons to choose the day [d1]...[d7] to assign the programs to
e) Select this using the ↵ button;
f) The value of the first program to assign will flash: P1...P6 or "OFF" to disable;
g) Set the value using the + − buttons and press ▷;
h) The value of the second program to assign will flash: P1...P6 or "OFF" to disable;
i) Set the value using the + − buttons and press ▷;
j) The value of the third program to assign will flash: P1...P6 or "OFF" to disable;
k) Set the value using the + − buttons and press ↵ to confirm the settings.

10.1.3 Enabling/disabling the timer

a) Use the arrow buttons ◁ ▷ to go to the Timer menu 🕒;
b) Select this using the ↵ button;
c) Use the + − buttons to scroll and select: "ON" to enable the timer or "OFF" to disable it;
d) Press ↵ to confirm the selection.

When the timer is enabled, the 🕒 icon will be on steady, indicating that the timer is active.

10.2 "ECO MODE" SAVING FUNCTION

Enabling this function means that the stove switches off when reaching the desired room temperature. If this function is not enabled, the stove modulates operation so as to maintain the desired temperature while consuming the least amount of fuel possible. The "Eco Mode" function is only available in configuration 2.

To enable/disable the function:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Select submenu [7] and confirm by pressing ↵.
d) Set one of the following values using the + − buttons:

ECO → "Eco Mode" function enabled

OFF → "Eco Mode" function disabled

e) Press ↵ to confirm the settings.

10.3 AUTONOMY FUNCTION

This function is used to display the number of hours of operating autonomy remaining before having to refill with pellets. Use the arrow buttons to move to the symbol and display the estimated operating hours before having to refill with pellets. The autonomy is calculated according to the operating parameters set at that moment on the stove.

The estimated values are quite reliable, as long "FULL" is selected and confirmed whenever refilling the stove completely. "Lo" indicates the reserve fuel level.

10.4 REFILL FUNCTION

This function is used to tell the stove that the hopper is being filled with pellets.

In this way, the stove can estimate, based on the operating parameters, how many hours of autonomy remain before having to fill the hopper with pellets again.

After having completely filled the pellet hopper:

a) Use the arrow buttons ◁ ▷ to move to the fuel icon and press ente ↵ .
b) Use the + − buttons to select "FULL" and press enter ↵.

To disable this function, select "OFF" instead of "FULL".

10.5 RESTARTING AFTER A POWER FAILURE

In the event of power failures, the stove will switch back on automatically, checking the safety conditions, when power returns.

10.6 "LOCK KEYPAD" FUNCTION

This function is used to disable the use of the control panel and avoid accidental modifications.

To enable/disable the function:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Select submenu [10] and confirm by pressing ↵ .
d) Use the + − buttons to set one of the following values:
"OFF" Lock keypad disabled
"Lo" Only the on/off button ⏻ is enabled
"HI" Lock keypad enabled
e) Press ↵ to confirm the settings.

10.7 FROST PROTECTION FUNCTION

In configurations 2, 3 and 4 a minimum temperature can be set below which the boiler will switch on (outside of the set time bands).

Configuration 2:

To set the “frost protection” temperature:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the + button to select the password “7” and then press ↵ to confirm;
c) Select submenu [9] and confirm by pressing ↵;
d) The value will flash; change it using the + − buttons (OFF; 3...20°C);
e) Press ↵ to confirm the settings.

Configuration 3 and 4:

To set the “frost protection” temperature:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the + button to select the password “7” and then press ↵ to confirm;
c) Select submenu [9] and confirm by pressing ↵;
d) The value will flash; change it using the + − buttons (OFF; 3...50°C);
e) Press ↵ to confirm the settings.

Setting the value to “OFF” in step d disables the function.

10.8 RESTART DELTA FUNCTION

Restart delta (configurations 2, 3 and 4) is the number of degrees centigrade below the switch-off temperature at which the stove switches on again automatically. For example, if the stove is set to switch off at 20°C (Eco Mode active) and “Restart delta” is set to 4°C, the stove will switch on again when the temperature measured is less than or equal to 16°C.

Configuration 2:

To set the restart delta value:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the + button to select the password “7” and then press ↵ to confirm;;
c) Select submenu [8] and press ↵ to confirm;
d) The value will flash; change it using the + and − buttons (0.5 ... 5.0°C);
e) Press the ↵ button to confirm the set value.

Configuration 3 and 4:

To set the restart delta value:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the + button to select the password “7” and then press ↵ to confirm;;
c) Select submenu [8] and press ↵ to confirm;
d) The value will flash; change it using the + and − buttons (0 ... 40°C);
e) Press the ↵ button to confirm the set value.

10.9 INTEGRATED PRODUCTION OF SANITARY HOT WATER

Only in models equipped with an hydraulic unit for the production of sanitary hot water it is possible to produce into the boiler also sanitary hot water, in addition to hot water for heating systems.

! This production can take place only if the boiler is operating. If the boiler is switched off, sanitary hot water cannot be produced.

11 ALARM MANAGEMENT

If a malfunction occurs, the following procedure is activated:
1) audible alarm (beep);
2) one of the following system LEDs come on: ;
3) if the problem concerns an error, the boiler will switch off.

Pressing and holding the “cancel” button shows the error code on the display:

ERROR/ WARNING CODE	DESCRIPTION	POSSIBLE CAUSES	LED
E001	Faulty control panel	Control panel fault	
E002	Remote control signal communication error	Control panel fault	
E004	Communication error	Connection cable between board and control panel interrupted or detached. If this appears when changing configuration, ignore the error	
E101	Failed ignition error Outlet water temperature too high	No pellets Pellet quality Faulty ignition system Burn pot dirty Problems with the heating system Problems with the pump	
E105	Temperature probe malfunction	Faulty return water temperature probe	
E106	Temperature probe malfunction	Faulty buffer tank temperature probe	
E108*	Safety error	Door open	
E109	Pressure error or thermal safety	Flue gas exhaust system dirty Seal gaskets worn Insufficient combustion air Problems with the heating system Problems with the pump Problems with overheating in the pellet hopper	
E110	Temperature probe malfunction	Faulty outlet water temperature probe Faulty air temperature probe	
E111	Flue gas temperature probe malfunction	Faulty flue gas temperature probe	
A001	Low pellet level *(icon flashing)*	Pellets running out	
A002	Scheduled maintenance warning *(icons flashing)*	The boiler periodically requires maintenance to be performed by a qualified technician	
A007	Pressure sensor malfunction *(icon flashing)*	Pressure sensor or board fault.	
----	Clean boiler	Combustion chamber, burn pot or flue gas exhaust system dirty. Pressure measuring tubes detached or blocked. Combustion air intake blocked.	
----	Failed ignition error	No pellets; Faulty ignition heater; Worn gaskets; Incorrect burn pot position	

* Only for the models equipped with safety microswitches on the door or on the hopper lid.

After having checked the type of message, the alarm can be reset by pressing the on/off button for a few moments.
In case of error "E109 or E108", reactivate the manual switch thermostats located on the facade of the boiler (Fig. 11.1) before resetting the alarm.
Then the boiler can be started again.

Fig.11.1

12 MAINTENANCE

12.1 SAFETY PRECAUTIONS

Before performing any maintenance operations, adopt the following precautions:

- Make sure that all the parts of the boiler have cooled down.
- Make sure that the ash is completely extinguished.
- Use the personal protective equipment specified by directive 89/391/EEC.
- Make sure that the main power switch is off.
- Make sure that the power supply cannot be reconnected accidentally. Unplug the cord from the socket on the wall.
- Always use suitable tools for maintenance.
- Once maintenance or repairs have been completed, before operating the boiler again, restore all protection features and reactivate all safety devices.

A suitable ash vacuum cleaner (canister) makes it simpler to clean the ash.

12.2 ROUTINE USER MAINTENANCE

12.2.1 Cleaning the inside of the firebox

The boiler requires simple yet frequent and thorough cleaning in order to guarantee efficient and correct operation at all times.

Clean the boiler only when it's off and has cooled down.

Open the aesthetic door, and then, by using the three knobs, open the combustion chamber door.

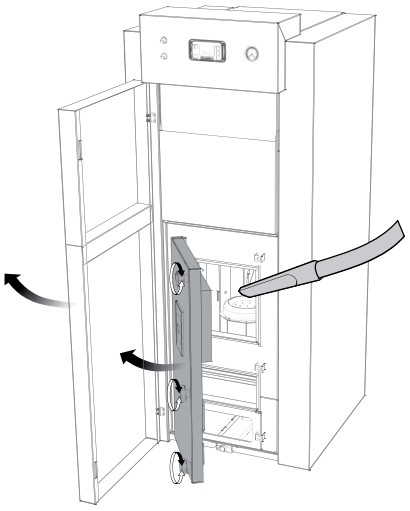


Fig.12.1

12.2.2 Cleaning the brazier

Periodically, with a frequency ranging from one to three days, depending on the operating hours of the boiler, remove the ash that is deposited inside the brazier (Fig.12.1).

This has the purpose of ensuring free flow of combustion air through the holes in the BURN POT.

12.2.3 Cleaning the ash bin

The ash bin should be cleaned every week or whenever necessary.

To access the ash bin, open the door and remove the bin (Fig.12.2).

Empty the bin into a special metal ash collection container.

Vacuum any residual ash from the compartment that houses the ash bin.

Reposition the ash bin. Close the doors.

Lift, remove the burn pot and clean the surfaces and the compartments inside the burn pot (Fig.12.3).

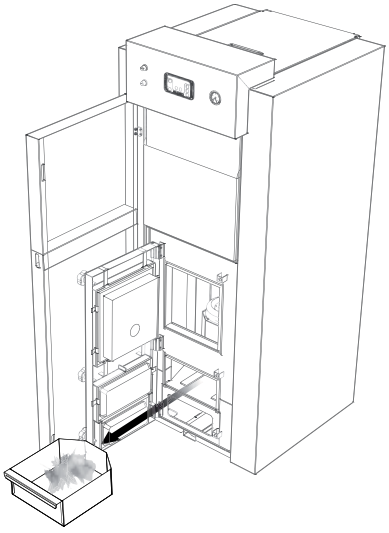


Fig.12.2

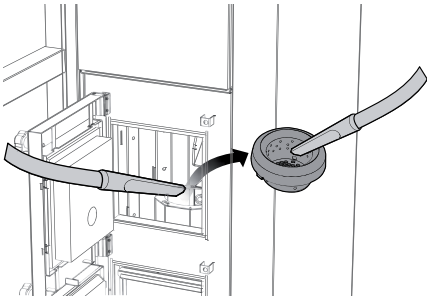


Fig.12.3

12.2.4 Cleaning the flue gas compartment

The flue gas compartment should be cleaned fortnightly or whenever necessary.

Take out the lever for moving the turbulators and removing the soot (Fig. 12.5).

Insert this into the special notch and move it up and down to remove the soot deposits from the tubes (Fig. 12.6).

Remove the lever and put it back in its original place.

Use a special ash vacuum cleaner to vacuum up the residues on the flue gas manifold.

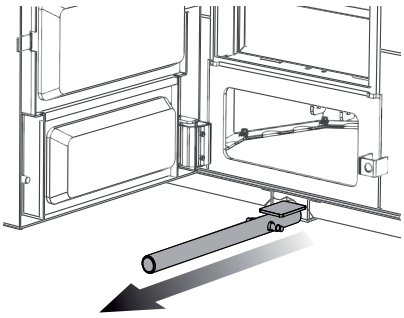


Fig.12.5

12.2.5 Cleaning the glass

This is done using a damp cloth or moistened paper passed through the ash.

Rub until the glass is clean (Fig.12.7). Detergents suitable for cleaning kitchen ovens can also be used.

Never clean the glass while the boiler is operating and never use abrasive sponges.

Do not wet the door gasket as this may be damaged.

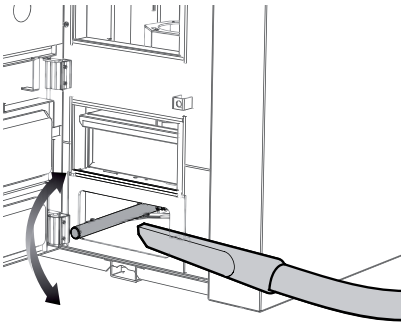


Fig.12.6

12.2.6 Cleaning the flue

This should be performed at least twice a year, at the start of and half-way through winter, and in any case whenever necessary (Fig.12.8).

If there are horizontal sections, check for and remove any accumulated ash and soot before these block the flow of flue gas.

If not cleaned correctly, the boiler may not operate properly, with problems including:

- poor combustion;
- blackening of the glass;
- blockage of the burn pot by ash and pellets;
- accumulated ash and excessive fouling of the heat exchanger, with a consequent decline in efficiency.

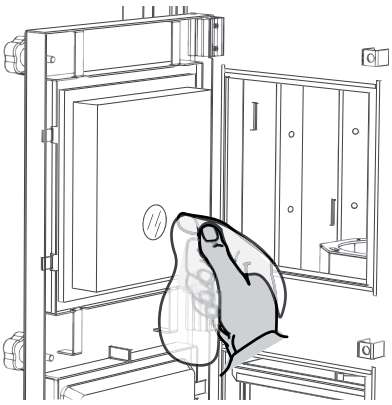


Fig.12.7

12.2.7 Cleaning the outside of the boiler

The outside of the boiler must only be cleaned using a dry, non-abrasive cloth.

! Do not use detergents and never clean when the boiler is hot.

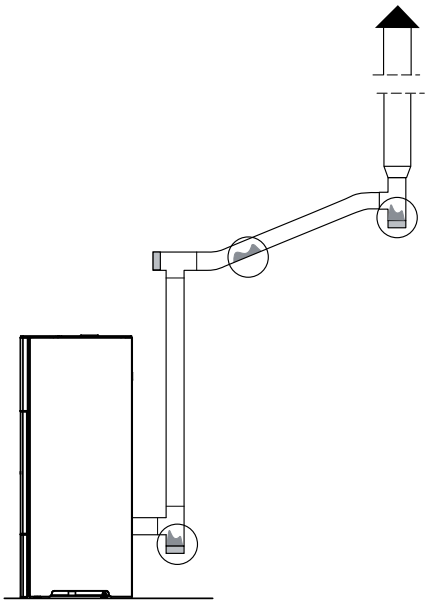


Fig.12.8

12.3 SPECIAL MAINTENANCE

The pellet boiler is a solid fuel fired heater and as such requires annual maintenance to be performed by a Palazzetti Authorised Service Centre once a year, preferably at the start of the season.

The purpose of such maintenance is to ensure all the components are in perfect working order.

If the control panel shows the symbols together, immediately contact the Service Centre to have special maintenance performed on the boiler.

This warning can be reset temporarily by pressing the button and then starting the boiler again.

The warning will be shown again until special maintenance is performed by the Authorised Service Centre, which will also reset the operating hour counter.

INSPECTION AND/OR MAINTENANCE PLAN

	WHENEVER STARTED	WEEKLY	1 MONTH	6 MONTHS	1 YEAR
Burn pot	X				
Ash bin/Compartment		X			
Glass		X			
Heat exchanger			X		
Ignition heater socket		X			
Flue gas manifold			X		
Door and burn pot gaskets*					X
Flue*				X	
Exhaust fan *					X

(*) responsibility of the Authorised Service Centre.

13 DECOMMISSIONING AND DISPOSAL

Decommissioning and disposal of the boiler are the exclusive responsibility of the owner, who must act in accordance with the laws in force in the country where the boiler is installed with regards to safety and environmental protection.

The boiler may also be dismantled and disposed of by companies authorised to recover and dispose of the materials in question.

☞ **INSTRUCTION**: always observe the standards in force in the country where the boiler is decommissioned as regards disposal of the materials and the waste disposal report where required.

! **IMPORTANT**: All dismantling operations for decommissioning the boiler must be performed when the boiler is off and disconnected from the power supply.

- remove all electrical equipment;
- separate the batteries fitted on the electronic boards;
- have the structure of the boiler scrapped by an authorised company;

! **IMPORTANT**: Dumping the boiler in accessible areas represents a serious hazard to people and animals.

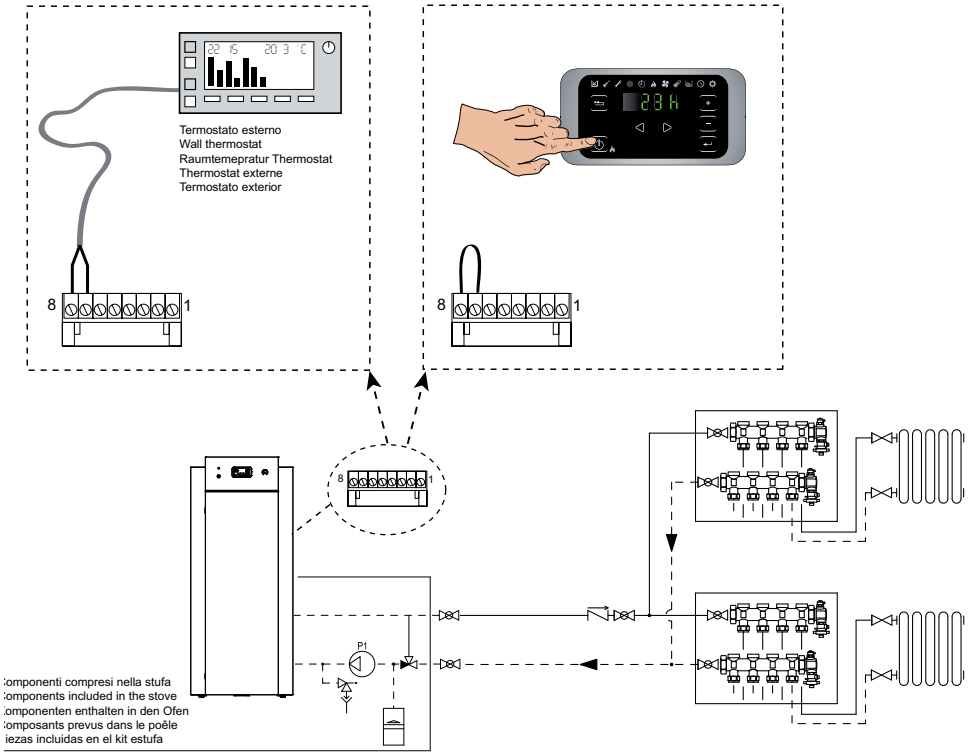
Liability for any harm caused to people or animals always lies with the owner.

When decommissioning the boiler the ce mark, this manual and other documents relating to this boiler must be destroyed.

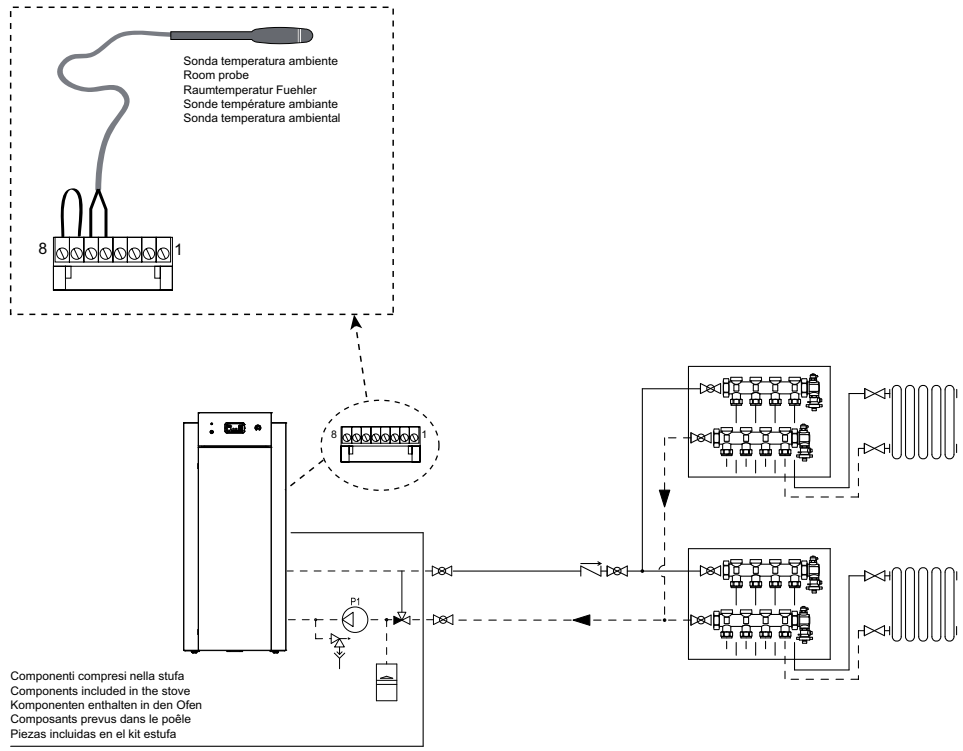
14 CONFIGURAZIONI DISPONIBILI

AVAILABLE CONFIGURATIONS - KONFIGURATIONEN ERHÄLTLICHCONFIGURATIONS DISPONIBLES - CONFIGURACIONES DISPONIBLES - KONFIGURACIJE NA VOLJO

CONFIGURAZIONE 1 - CONFIGURATION 1 - KONFIGURATION 1 - CONFIGURATION 1 - CONFIGURACIÒN 1



CONFIGURAZIONE 2 - CONFIGURATION 2 - KONFIGURATION 2 - CONFIGURATION 2 - CONFIGURACIÒN 2



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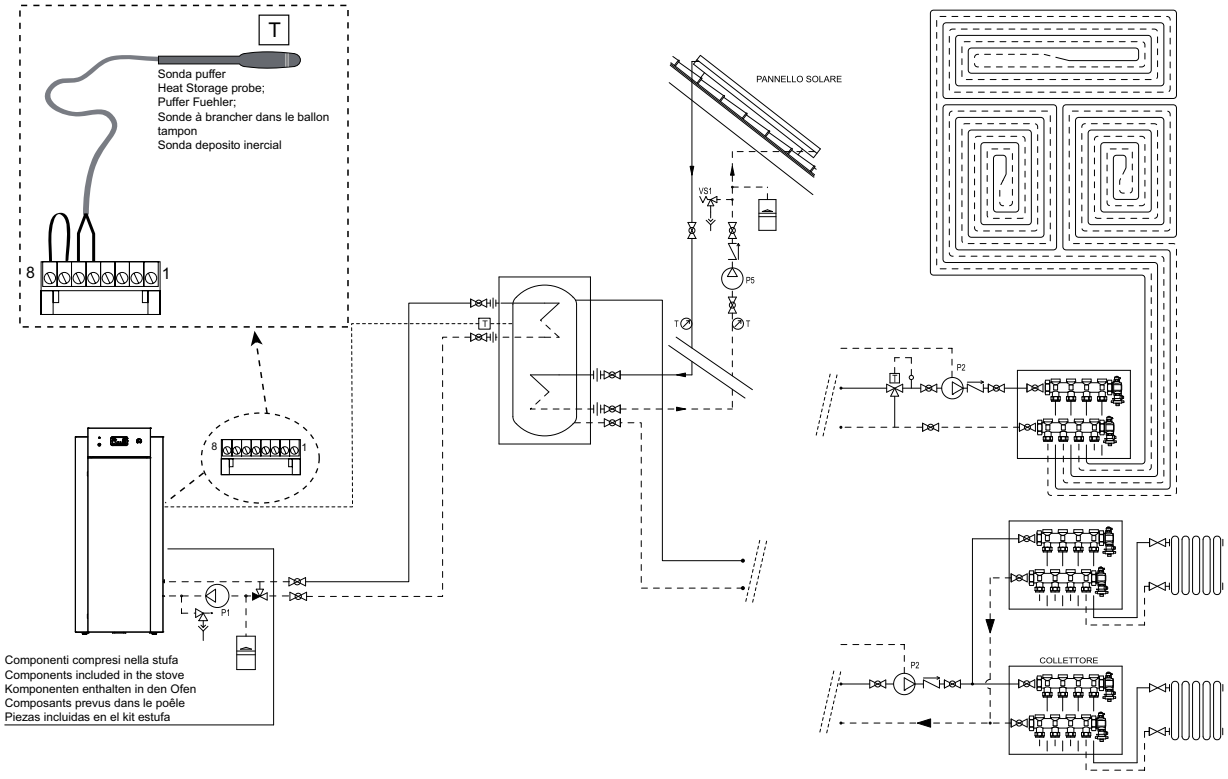
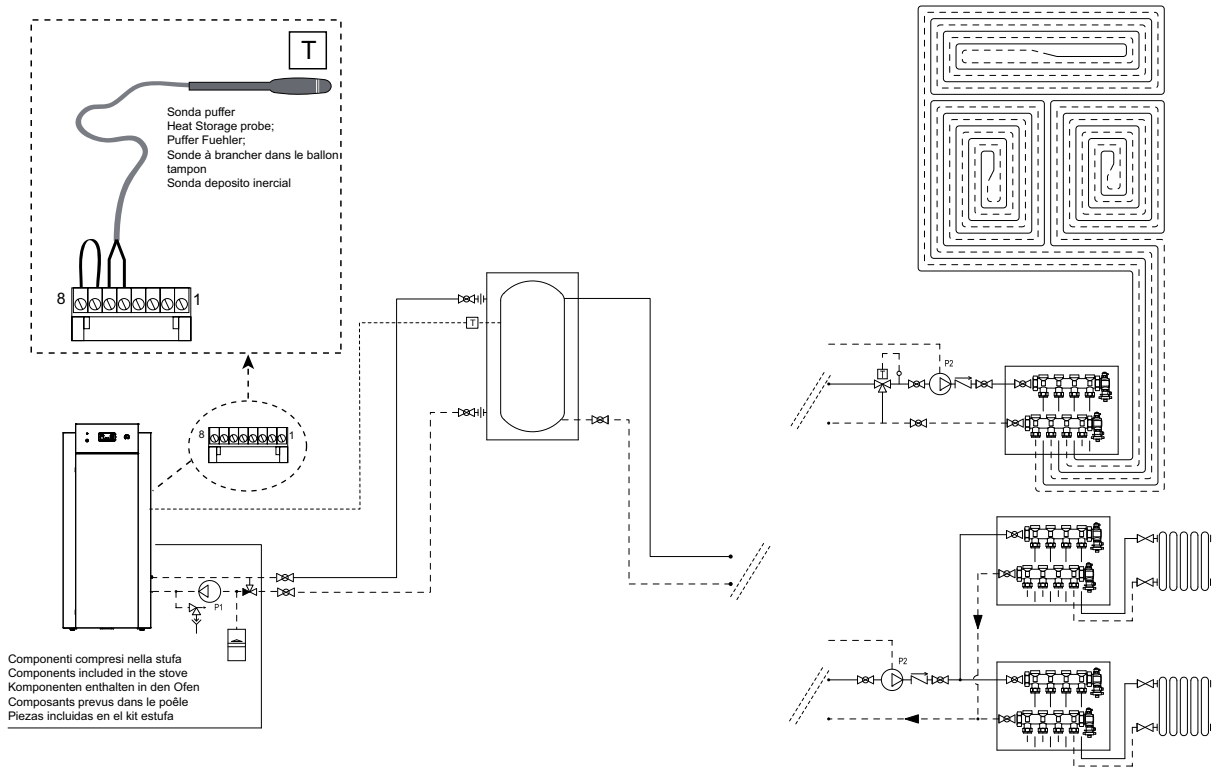
CONFIGURAZIONE 3 - CONFIGURATION 3 - KONFIGURATION 3 - CONFIGURATION 3 - CONFIGURACIÒN 3



CONFIGURAZIONE 4 - CONFIGURATION 4 - KONFIGURATION 4 - CONFIGURATION 4 - CONFIGURACIÒN 4



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www.palazzetti.it