EDILKAMIN
TECNOLOGIA DEL FUOCO

WOOD PELLET BOILER-FIREPLACE

IDROPELLBOX 30

CONTENTS

The original language of this manual is Italian

The undersigned EDILKAMIN S.p.A., with registered office in Via Vincenzo Monti 47 - 20123 Milan (Italy) - Tax ID Code and VAT number 00192220192

Hereby declares, under its sole responsibility, that:
the wood pellet boiler-fireplace mentioned below are conforming with EU Regulation 305/2011 and harmonised EU standard EN 14785:2006

WOOD PELLET BOILER-FIREPLACE, bearing the EDILKAMIN trademark, models
IDROPELLBOX 30

SERIAL NO.: Rating plate reference
IDROPELLBOX 30: Performance declaration (DoP - EK no. 168)

Moreover, the company hereby declares that:
the wood pellet boiler-fireplace IDROPELLBOX 30 comply with the requirements in the following European Directives:
2014/35/EC - Low Voltage Directive
2014/30/EC - Electromagnetic Compatibility Directive

Dear Sir/Madam

We thank you for and congratulate you on choosing our product. Before using it, we ask you to read this manual carefully, in order for you to be able to make the most of all its functions in total safety.

This manual is an integral part of the product. We ask you to keep it for the entire lifetime of the product. If you lose it, you can request a copy from your dealer or download it from www.edilkamin.com

Readers of this manual

This manual is addressed to:

- those who will use the product at home ("USER");
- the technician who will install the product ("INSTALLER")

The target person of each page is indicated in a band at the bottom of the page (USER or INSTALLER).

General information

After unpacking the product, check the condition and completeness of the contents.

In the event of error, immediately contact the retailer where the purchase was made, providing them with a copy of the warranty booklet and the sales receipt.

The appliance must be installed and operated in compliance with local and national law and European regulations. For the installation, and for anything not specifically indicated in the manual, observe local regulations.

The diagrams provided in this manual are for illustration purposes only: they do not always strictly refer to your specific model, and are not binding in any way.

MEANING OF SYMBOLS

In some parts of the manual the following symbols are used:

PLEASE NOTE:
carefully read and understand the message in question, since failure to follow the instructions in it could cause serious damage to the product and put the safety of those using it at risk.

INFORMATION:
failure to comply with these requirements will compromise product use.

OPERATING SEQUENCE:
follow the instructions for the operations described.

Identification of the product and warranty.

The product is uniquely identified by a number, the "counterfoil", which is indicated on the warranty certificate.

Please keep:

- the warranty certificate accompanying the product
- the purchase receipt given to you by the retailer
- the declaration of conformity given to you by the installer.

The warranty conditions are given in the warranty certificate accompanying the product and on website www.edilkamin.com.

First ignition (commissioning), in Italy, by an authorised technician is required by UNI 10683, and is recommended in all countries to ensure best results from the product.

This consists of:

- checking the installation documents (declaration of conformity) and the quality of the installation itself
- calibrating the product to suit its actual application
- providing explanations to the end user and issuing the complementary documentation (first ignition - commissioning certificate)

Having the appliance commissioned properly ensures that it will operate to best effect and in complete safety.

Commissioning is required for activation of the Edilkamin manufacturer warranty. The warranty is only valid in the country where the product was bought.

If the appliance is not commissioned by an authorised technician, Edilkamin will not provide warranty service. See the warranty booklet for details. The above terms do not affect the dealer's legal responsibility for the legal warranty.

The warranty, however, covers only demonstrable manufacturing defects and not, for instance, problems resulting from improper installation or calibration.

- The product is not designed for use by people, including children, with limited physical, sensory and mental abilities.
- The appliance is not designed for cooking purposes.
- The appliance is designed to burn wood pellets from category A1 in the UNI EN ISO 17225-2 standard, in the amounts and manner described in this manual.
- The appliance is designed for indoor use and in areas with normal humidity conditions.
- Keep the product in a dry place out of the weather.
- For the legal and company warranties, refer to the warranty certificate inside the product: specifically, neither Edilkamin nor the retailer are liable for damage resulting from incorrect installation or maintenance.

Safety risks may be caused by:

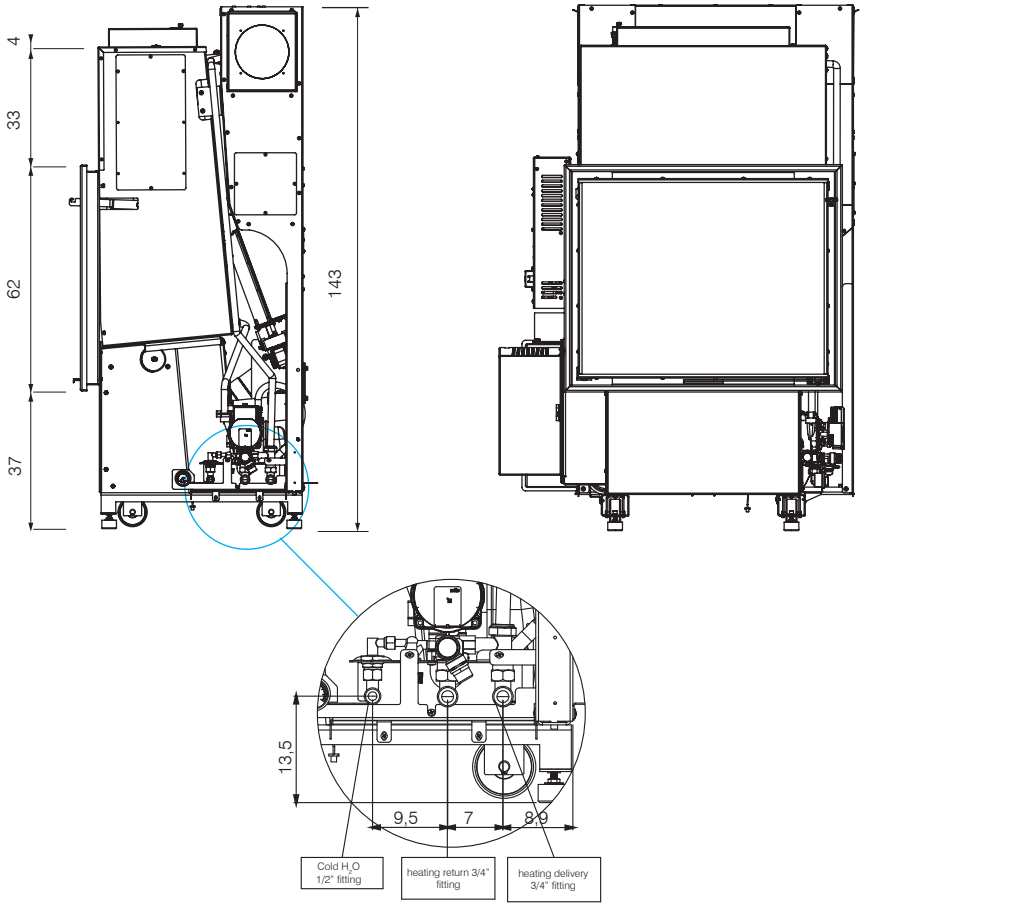
- installation in non-suitable settings, in particular those that are subject to fire risks. DO NOT INSTALL THE PRODUCT IN AREAS SUBJECT TO THE RISK OF FIRE.
- contact with fire and hot parts (e.g. glass panel and pipes). DO NOT TOUCH HOT PARTS and, when the stove is switched off and still hot, always wear the glove supplied.
- contact with live electrical equipment (internal). DO NOT ACCESS THE INTERNAL ELECTRICAL EQUIPMENT WHILE THE APPLIANCE IS POWERED ON. Electrocution hazard.
- use of improper ignition aids (e.g. alcohol). DO NOT IGNITE OR BOOST THE FLAME WITH FLUID SPRAYS OR A FLAME TORCH. Serious risk of burns, damage and injury.
- use of fuel other than wood pellets. DO NOT BURN WASTE MATTER, PLASTIC OR OTHER MATERIALS THAN WOOD PELLETS IN THE COMBUSTION CHAMBER. The product may become soiled, the flue may catch fire, and environmental damage may ensue.
- cleaning the combustion chamber when hot. DO NOT CLEAN THE HEARTH WITH A VACUUM CLEANER WHILE IT IS HOT. You could damage the vacuum-cleaner and risk the emission of smoke in the room.
- cleaning the smoke duct with cleaning products. DO NOT CLEAN THE PRODUCT WITH FLAMMABLE PRODUCTS. Risk of fire or blowback.
- cleaning the glass pane while hot or with unsuitable cleaning products. DO NOT CLEAN HOT GLASS WITH WATER. ONLY USE RECOMMENDED GLASS CLEANING PRODUCTS. Risk of cracking and permanent, irreparable damage to the glass.
- the storage of flammable materials at a distance which is less than the safe distances listed in this manual. DO NOT PLACE LAUNDRY ON THE APPLIANCE. DO NOT PLACE DRYING RACKS WITHIN THE SAFETY CLEARANCE. Keep flammable fluids away from the appliance. Fire hazard.
- blocking the aeration vents and air intakes in the room. DO NOT BLOCK THE AERATION VENTS OR FLUE. Risk of smoke returning into the room with consequent damage and injury.
- use of the product as a support or ladder. DO NOT CLIMB ONTO THE PRODUCT OR USE IT AS A SUPPORT. Risk of damage and injury.
- use of the stove with the combustion chamber open. DO NOT USE THE PRODUCT WITH ITS DOOR OPEN.
- incandescent material projected from the open door. DO NOT throw incandescent material outside the appliance. Fire hazard.
- use of water in case of fire. CALL THE AUTHORITIES if a fire breaks out.
- never operate the product without water in the circuit.
- running it dry can damage it.

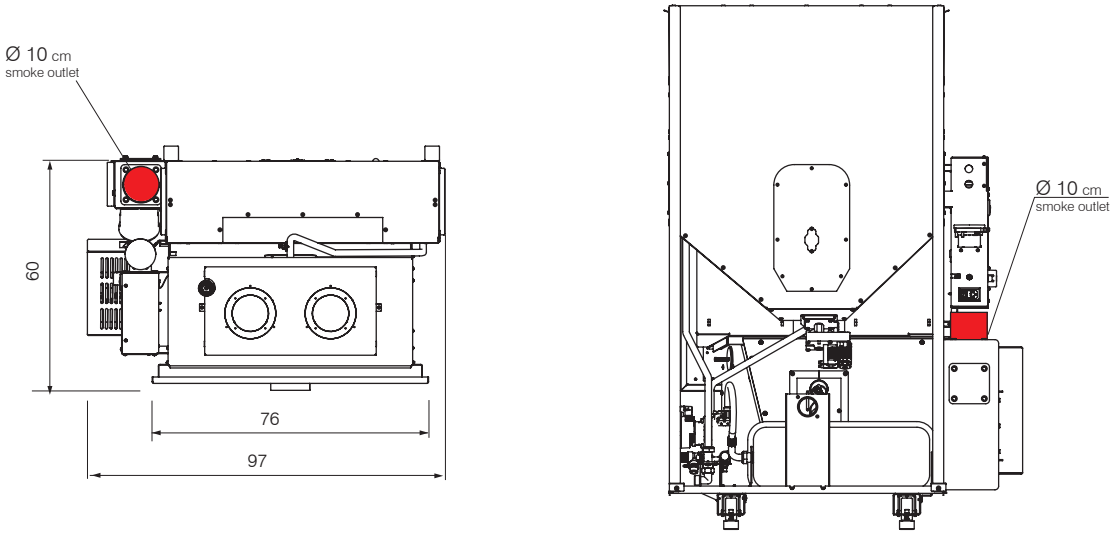
If you have doubts, please do not take any action, but contact the retailer or the installer.

For reasons of safety, read the user instructions included in this manual.

Technical interventions must be carried out by a licensed and qualified Technical Assistance centre/Edilkamin retailer ONLY.

IDROPELLBOX 30





TECHNICAL DATA as per EN 14785
Best results are achieved with the clean glass system closed. Use the supplied gasket, by the installer.

	IDROPELLBOX 30		
	Nominal power	Reduced power	
Available power	27	8,3	kW
Heat output to water	22	5,6	kW
Efficiency	90,4	94,3	%
CO emissions at 13% O_2	0,013	0,018	%
Smoke temperature	142	82	°C
Fuel consumption *	6,2	1,8	kg/h
Tank capacity	60		kg
Recommended draught	10	13	Pa
Autonomy	10	33	ore
Water content	50		l
Maximum operating pressure	2		bar
Maximum operating temperature	90		°C
Heatable volume **	705		m^3
Smoke outlet diameter (male)	100		mm
Air intake diameter (male)	50		mm
Weight with packaging	220		kg
Energy efficiency classes (2015-1186/1187 Regulation)	A+		

*A calorific value of 4.8 kW/Kg has been used to calculate consumption.
** The heatable volume is calculated based on the assumption of a heating demand of 33 Kcal/m^3 hour.
The product can be used safety even with a higher depression.
An higher depression can cause decrease in efficiency.

NOTE: smoke outlet Ø not equal to the chimney system one, to be adjusted accordingly

TECHNICAL DATA FOR SIZING THE FLUE
which must in any case satisfy the requirements of this sheet and the installation instructions for the product

	Nominal power	
	IDROPELLBOX 30	
Smoke temperature at outlet	170	°C
Minimum draw	0,01	Pa
Smoke flow rate	2,4	g/s

ELECTRICAL SPECIFICATIONS	
Power supply	230 Vac +/- 10% 50 Hz
Mean power absorbed (reduced power - nominal)	40 - 140 W
Power absorbed in stand by	5 W
Power absorption during ignition	300 W
Remote control frequency (provided)	2,4 GHz
Protection	Fusibile 4 AT, 250 Vac 5x20

The above data is for guidance only and was measured during certification by a notified body.
EDILKAMIN s.p.a. reserves the right to modify the product without notification in the interests of improvement.

PREPARATION AND UNPACKING

The packaging materials are neither toxic nor noxious and do not require special disposal.
The user is responsible for storing, disposing of and recycling them in a regulatory fashion.

Always move the stove vertically with suitable equipment and in compliance with safety regulations.
Do not turn the package over, and handle all parts requiring installation with care.

PACKAGING

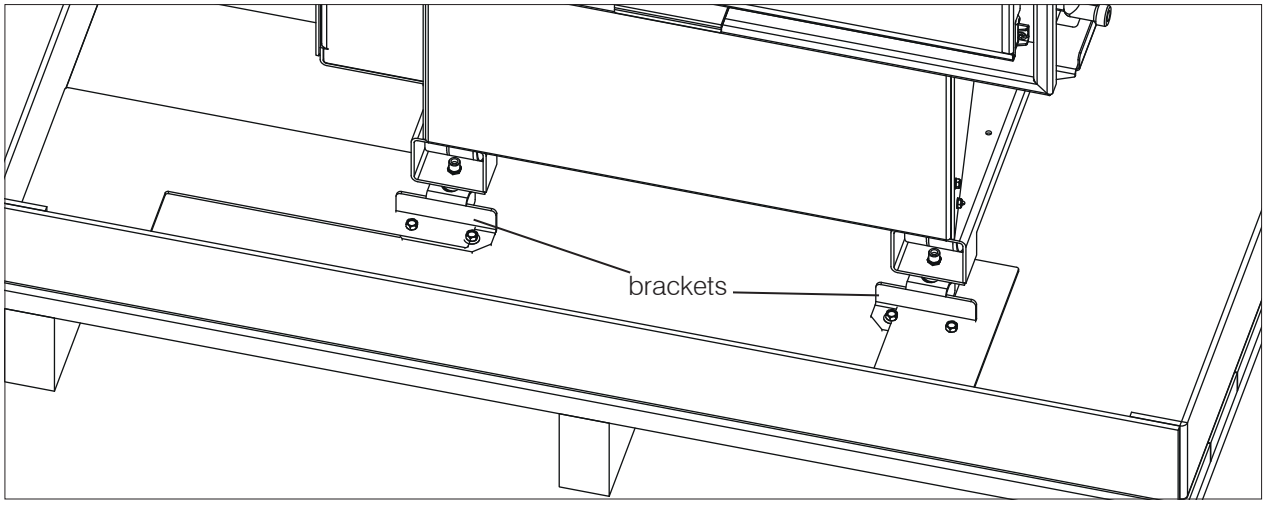
In the stove you will find:

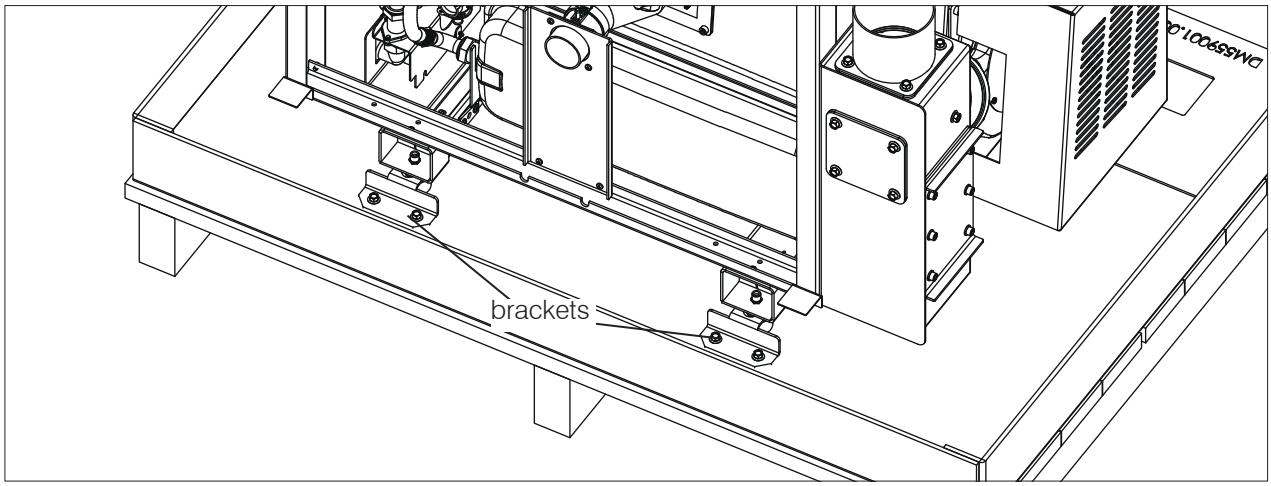
- remote control,
- warranty certificate,
- glove,
- desiccant salts,
- this manual,
- power cable,
- detachable handle to activate the cleaning brushes.

Package materials such as plastic and films my be dangerous for children.
Suffocation hazard.
Keep packages away from children.

TO REMOVE THE PRODUCT FROM THE PALLET

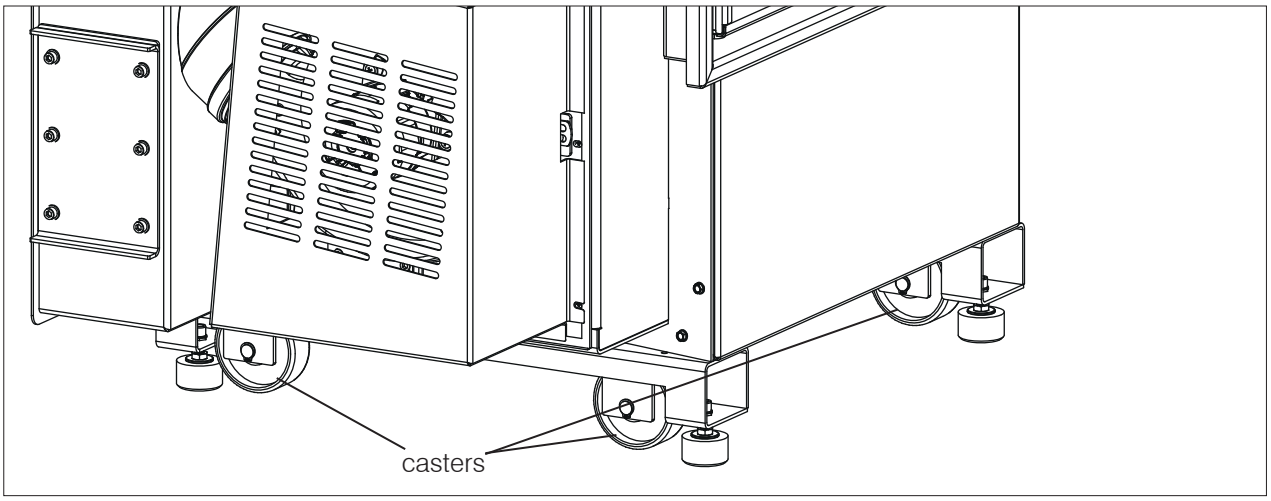
remove the four brackets (screwed on): 2 at the front and 2 at the rear





SHIFTING THE PRODUCT

The fireplace is equipped with four casters for facilitating its handling.
Lower the feet by turning them to use the wheels.
After positioning the fireplace, reposition the feet.
The feet are used to distance the fireplace from the floor and to level the hearth.



Handling should be done using wheels only

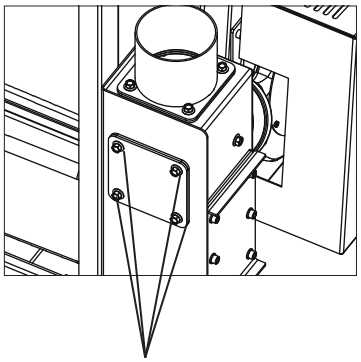
Do not move the product if weight is laying on feet and not on wheels

The feet are used to distance the fireplace from the floor and to level the hearth.

The product has a rear fume discharge outlet but is also configured to have it on the upper side.

To orient the outlet upwards; (please note that the pellet loading hatch cannot be used from the side)

- Remove the 4 screws fastening the smoke outlet flange;
- Remove the screws fastening the upper cap;
- Invert their position and fasten the components back on.



HYDRAULIC CONNECTIONS

Idropellbox 30 has an incorporated hydraulic kit.

It includes:
- a circulator pump;
- a safety valve;
- an 8-litre expansion vessel.

If the expansion tank is incorporated in the product, this does NOT ensure adequate protection against thermal expansion caused by water in the entire system.
Therefore, installers should assess whether an additional expansion tank is needed, depending on the type of system.

The hydraulic connections depend on the type of system. However, there are a few "general rules":
- The hydraulic system must operate at a pressure between 1 and 1.5–2 bars at running temperature (hot) in a closed vessel circuit.
- DO NOT install the product on a primary system with an open expansion tank.
- The return temperature of water must be higher than at least 50–55 °C to prevent condensate from forming.
- The material used in the circuit must be capable of withstanding possible overheating.
- The installer must decide whether or not to use conditioners depending on the type of water and system. In Italy, refer to the UNI 8065 standard (Water treatment in heating systems for civil use).

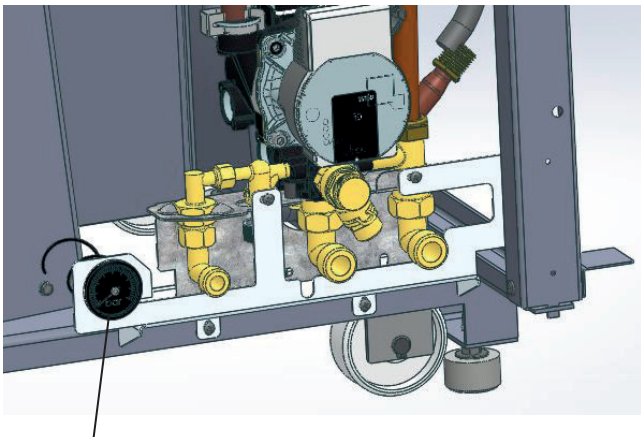
VENT

During normal operations the vent is automatic. During installation, the technician must check the functionality of the automatic vent and assess whether a manual vent needs to be installed.

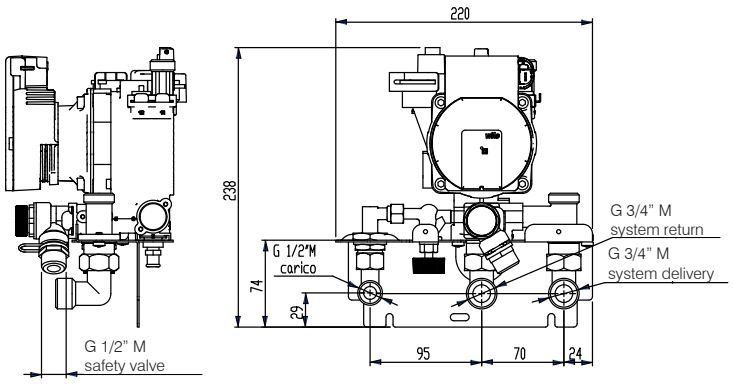
PRESSURE GAUGE

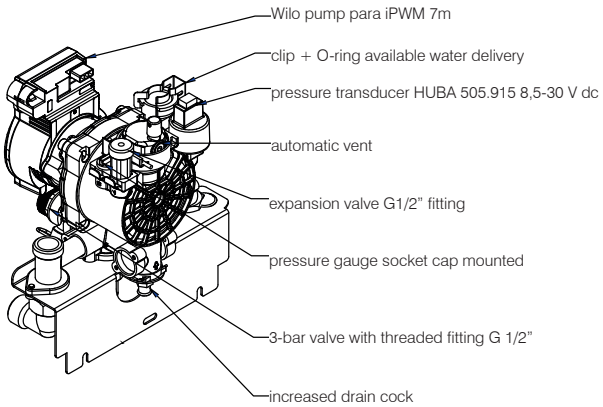
The product reads the water pressure electronically. You can read the water pressure on the remote control display.

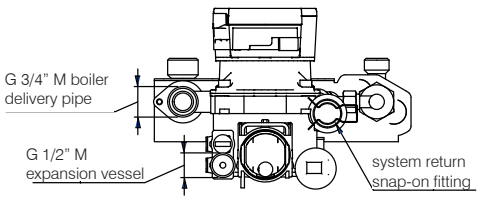
An analogue pressure gauge is also fitted on the right-hand side of the product, near the filling valve.



pressure gauge

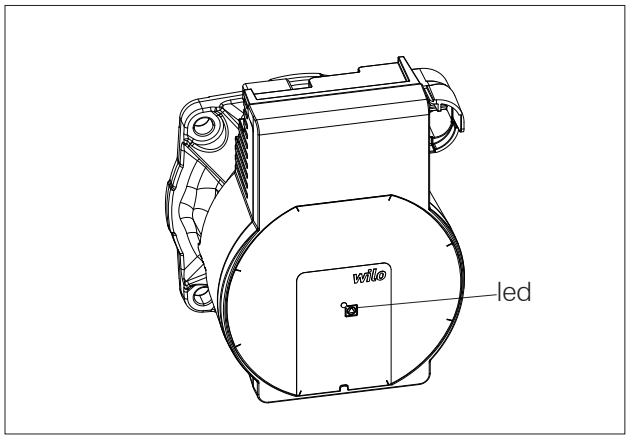






measurements in mm

PUMP SPECIFICATIONS



The pump has no adjustment devices.
Adjustments are made via the micro
processor on the boiler stove: “begin” at the lowest speed and make adjustments based on the progression of the water temperature. Below is the descriptions for the LED signals.

LEDS	MEANING	CAUSE	SOLUTION
Steady green	Pump running	Normal operation	
Flashing green light	Pump in stand-by mode	Normal operation	
Steady red LED	Stall	Pump stalled	Contact the TAC
	Contact/winding	Defective winding	
Flashing red LED	Under-/over-voltage	Supply voltage too low/high	Check the supply voltage/contact the TAC
	Excessively high module temperature	Motor board temperature too high	
Flashing red/green light	Turbine-based operation	The pump is not powered but the hydraulic system is fed by other sources	Check the network voltage/ water pressure and environmental conditions/contact the TAC
	Dry operation	Air in the pump	
	Overload	The motor runs with difficulty	

TERMINAL BOARD

Sul lato sinistro (tolto il coperchio protettivo avvitato A terminal board is mounted just above the electronic board, on the left-hand side (remove the protective cover fastened with two screws).
The terminal board includes low and high voltage.
Examples of possible connection configurations are shown below.

Poles are identified with a number on the product as described below

Low voltage terminal board

N° POLES	POSSIBLE CONNECTIONS	NOTES
1/2	Ntc analogue input	e.g. for a second probe for accumulator tank or boiler for domestic hot water or for an external probe for climatic curve
3/4	NTC probe/accumulator tank thermostat	
5/6	NTC probe/room thermostat	the room probe is supplied already wired as standard
7/8	Home Automation Input. This is an input which receives all home automation contacts	A telephone dialler, for example
9/10	Probe for domestic hot water boiler	

High voltage terminal board

N° POLES	POSSIBLE CONNECTIONS	NOTES
1/2/3	Electrical connection for booster/secondary pump (Earth, Neutral/Phase)	
4/5/6	EXTERNAL SOLENOID VALVE (Common, Normally Closed, Normally Open) 4 = Common 5 = Normally Closed 6 = Normally Open	During First Ignition, the technician can set up, into parameters, the connection setting on points 4 and 5, of an external boiler contact or remore alarm.

REMARKS ON INSTALLATION

Note that:

- installation must be carried out by authorised technical personnel;
- The appliance must be installed and operated in compliance with local and national law and European regulations. The applicable Italian standard is UNI 10683;
- If installed in a condominium, the appliance must be approved by the administrator.

We give some general instructions below, however these do not obviate the need to comply with local regulations and do not imply any liability as regards the installer's work.

Checking the suitability of the installation space

- The room must have a volume of at least 30 m^3.
- The floor must be able to bear the weight of the product and its accessories.
- Level the product (the product is provided with adjustable feet).
- The appliance may not be installed in a bedroom, bathroom or in the same room as other equipment which draws air for combustion from the room itself, or in any area with an explosive atmosphere. Any extraction fans operating in the same room or area as the product, may affect its draw.
- In Italy, check the compatibility pursuant to UNI 10683 and UNI 7129 in the presence of gas fired products.

NOTE

To load the pellets and perform maintenance, there must be at least two doors on the left-hand and right-hand sides (170x55 cm).

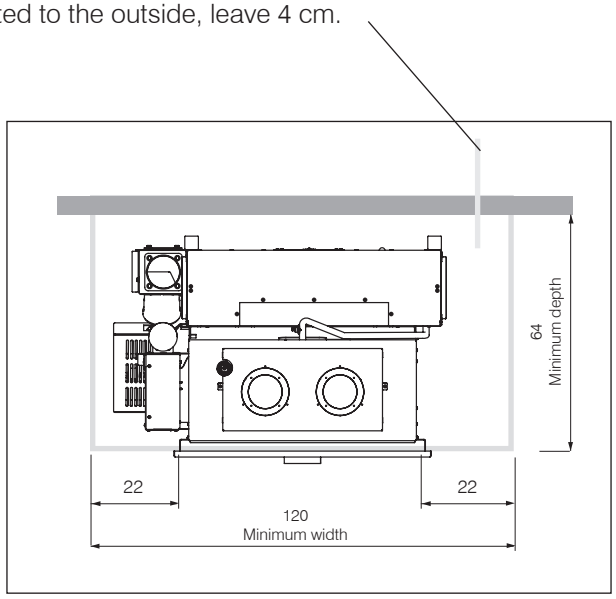
See following page.

You can load from either the right or left. You can decide during the installation phase.

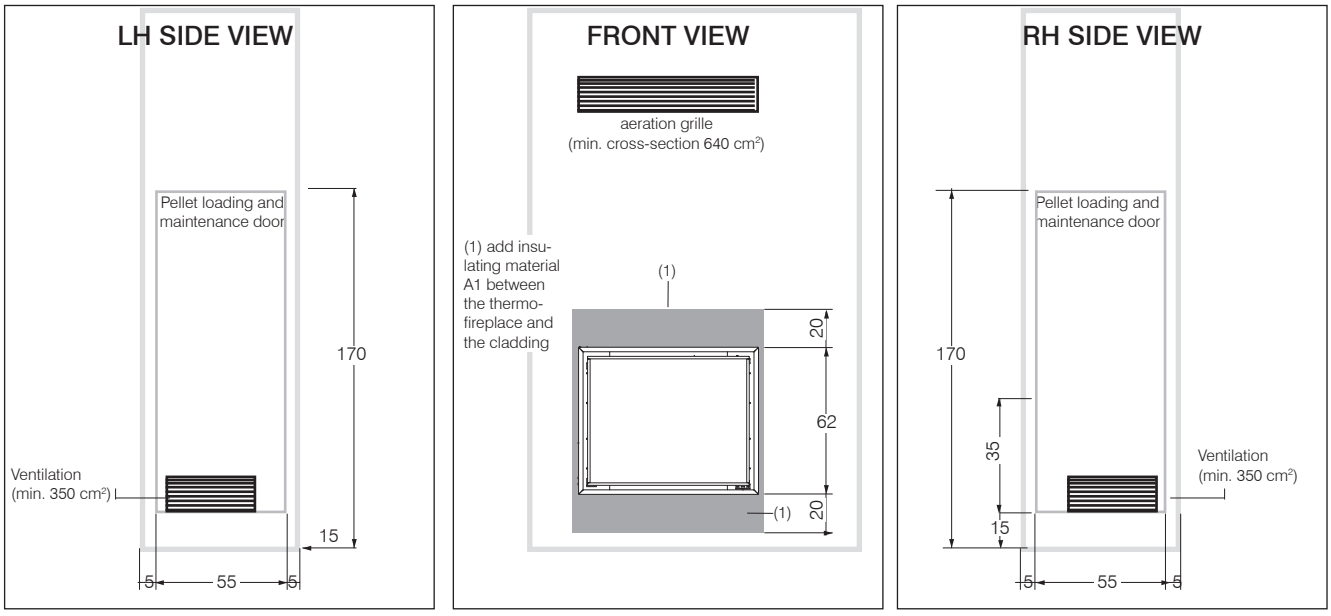
Warning:

if the fume outlet points upwards, you can only load from the right-hand side.

Distance from flammable wall not requested (0 cm).
If the air vent is not connected to the outside, leave 4 cm.



"Insert the aeration grilles and side openings (55x170 cm doors) to be able to load the pellets into the tank, view the pressure gauge, for easier access to the ignition button, maintenance, etc. The measurements and positions are expressed in cm in the figure below."



Protection from heat and safety clearances

The surfaces of the building that are adjacent to the product must be protected against overheating.

The insulation to be used will depend on the type of surface in question.

The appliance must be installed in accordance with the following safety instructions:

- no flammable materials may be kept closer than 10 cm to the sides and back
- no flammable materials may be kept within 80 cm from the front of the appliance.

If connected to a wooden or otherwise flammable wall, the flue must be insulated appropriately.

If installed on a flammable or combustible floor, or which is not capable of bearing its load, use steel or glass plates under the stove to distribute the load.

FLUE SYSTEM(Smoke duct, flue and chimney pot)

This chapter has been drawn up pursuant to European standards EN 13384, EN 1443, EN 1856 and EN 1457. The installer must observe both these and any other local regulations.

This manual does not in any way substitute such regulations.

The product must be connected to a flue system which ensures that the smoke produced by combustion is discharged in complete safety.

Before positioning the appliance, the installer must check that the flue is suitable.

SMOKE DUCT, FLUE

The smoke duct (which connects the smoke outlet of the combustion chamber with the flue) and the flue itself must, among other regulatory requirements:

- receive the smoke from a single product (outlets from multiple appliances may not be conveyed into a single flue)
- be routed vertically for the most part
- have no downwards sloping sections
- preferably have a circular internal cross section, or with a ratio of the sides of less than 1.5
- terminate at roof level with a proper chimney pot: the flue may not discharge directly onto the wall or into an enclosed space, even if the space in question is open to the sky
- be made of material with rated fire reaction class A1 as per UNI EN 13501 or analogous national regulations
- be certified, with a chimney plate if metal
- be of uniform cross section or vary in cross section only immediately after the outlet, not at some mid point of its length

THE SMOKE DUCT

Further to the general prescriptions for the smoke duct and flue, the smoke duct:

- may not be made of flexible metal material
- must be insulated, if routed through unheated areas or outdoors
- must not be routed through rooms where the installation of combustion heat generators is prohibited, where there is risk of fire, or which cannot be inspected
- must enable the recovery of soot and be open for inspection
- must have at most 1 bend with a maximum angle of 90°
- if there is a horizontal section, it must be a single one with a maximum length of no more than 3 metres, depending on the draw. Note, in any case, that long sections promote the accumulation of dirt and are harder to keep clean.

THE FLUE:
Further to the general prescriptions, the flue must
- only be used to discharge smoke
- be correctly sized to satisfy the requirements of smoke discharge (EN 13384-1)
- must preferably be insulated, in steel with a circular internal section. If rectangular, the corners must have a radius of not less than 20 mm, with a ratio of the internal dimensions of <1.5
- must normally be at least 1.5 metres in vertical length
- must have a constant cross section
- must be waterproof and thermally insulated to ensure a good draw
- must preferable have a collection chamber for non-combusted matter and condensation.
- if pre-existing, it must be cleaned to prevent any fire hazard
- in general, we recommend fitting a tube inside the existing masonry chimney if its diameter is greater than 150 mm. This recommendation is purely for guidance; the installer must assess wile installing, after the calculation of the draw.

INTUBATED SYSTEM:
Further to the general prescriptions, the intubated system must:
- operate in negative pressure
- be open to inspection
- be compliant with local regulations.

THE CHIMNEY POT must:
- be wind-proof
- have an internal cross section equivalent to that of the flue and a smoke outlet at least double that of the interior of the flue
- extend beyond the back flow zone (in Italy, refer to UNI 10683 point 6.5.8.)
- allow for maintenance of the chimney

For dual flues (which should be spaced at least 2 m apart), the chimney pot receiving the smoke from the solid fuel appliance or that from the higher storey, must be at least 50 cm higher than the other

AIR INTAKE FOR COMBUSTION
In general, we suggest two ways to ensure a proper flow of combustion air. Air must come from the outside*
It is also important to ensure a change of heating air and glass cleaning air etc.

Indirect air intake
The boiler stove takes air from the outside through the hole on the rear.
Install an air outlet at floor level with an effective surface area (net of the mesh or other protections) of at least 100 cm^2.
To prevent draughts, we recommend installing the intake behind the product or behind a radiator.
Installing it in front of the appliance will create unpleasant draughts.

Direct air intake**
Install an air intake of effective area (net of the mesh or other protective equipment) at least equal to that of the air intake at the back of the product.
Connect the air intake to the appliance's air intake with a tube (which may also be of the hose type). Increase the diameter of the pipe if it is not smooth: assess its pressure drops.
We recommend not exceeding a length of 1 m, considering the draw of the flue. You should also consider increasing the diameter of the pipe.

*The air may be drawn from an adjacent room only if:
- the flow is taken from permanent and unobstructed openings communicating with the outdoors
- the air pressure in the adjacent room is never lower than that of the outdoor pressure
- the adjacent room is not a garage. subject to fire hazard, a bathroom or bedroom
- the adjacent room is not a shared room in the condominium

In Italy, UNI 10683 provides that ventilation is sufficient even if a pressure difference between the outdoors and indoors of no more than 4 PA is guaranteed (UNI EN 13384-1). The installer who issues the declaration of conformity is responsible for ensuring these conditions.

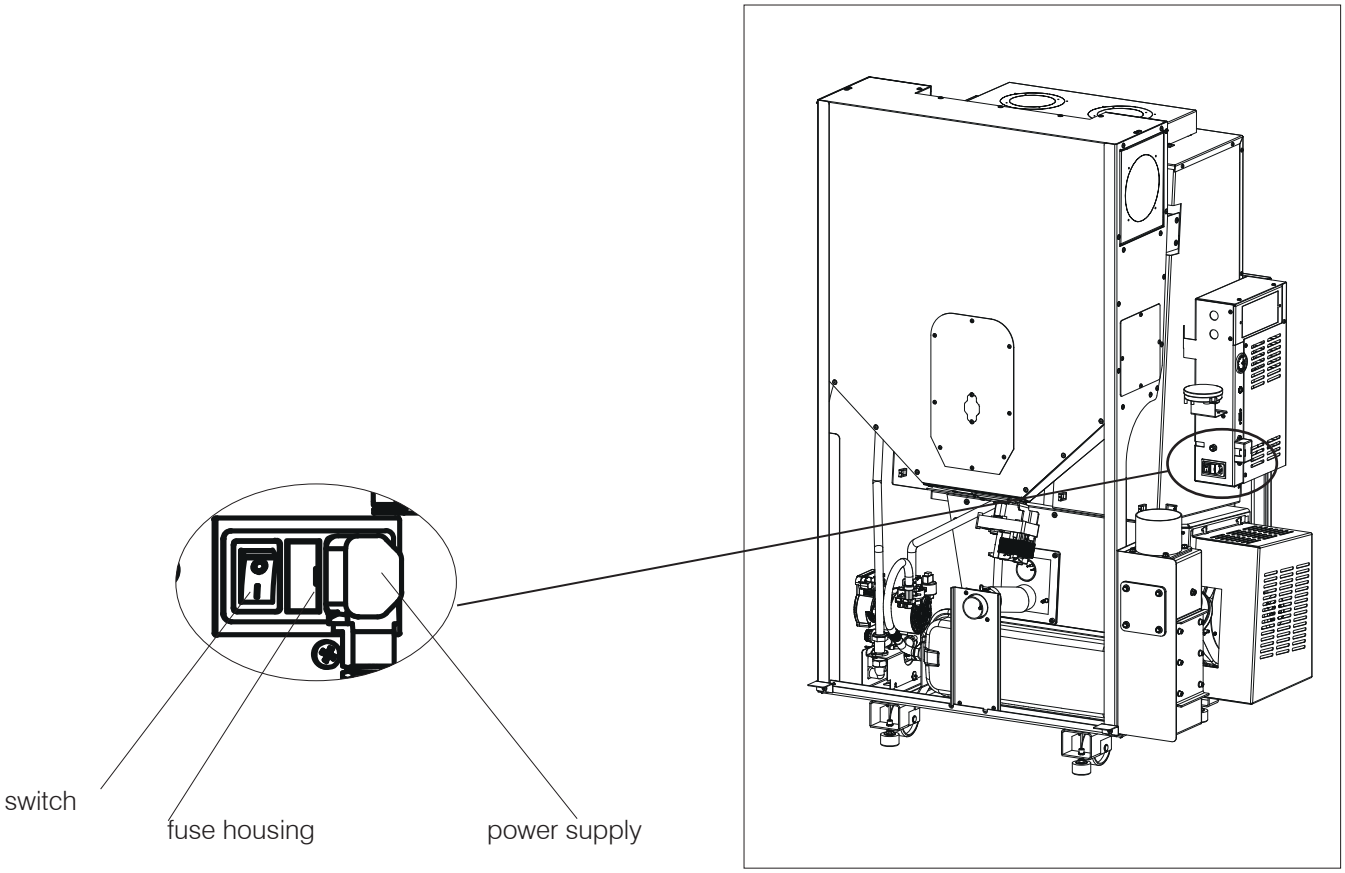
**The direct connection of the air intake does not make the product airtight. It is therefore necessary also to ensure recovery of the air taken in the room by the product (i.e. for the glass cleaning)

CHECKING THE ELECTRICAL CONNECTIONS (the power socket must be located in an easily-accessible position)

The product is supplied with an electrical power cord for connection to a 230V 50 Hz socket, preferably one equipped with a trip switch.
Variations in voltage of more than 10% can compromise its operation.
The electrical system must be compliant; check the operation of the earth in particular.
Edilkamin is not responsible for malfunctions resulting from an improperly earthed system.
The power line must be of adequate section for the power of the appliance.
The power cable must not come into contact with the flue or other hot parts of the stove.
Power up the product by setting its switch from 0 to 1.

There is one 4 A fuse on the socket with switch located at the rear of the product.

We recommend mounting an on/off switch in an accessible point.



Facings, gather hood and vents

Face the product only after having completed the following steps:

- connection of the product to the smoke outlet and air intake;
- inspection of the product when hot;
- check to verify whether the product is levelled.

The installer must implement all the installation good practices and take all the necessary precautions against overheating and fire.

In particular:

- if a plinth is constructed beneath the hearth level, it must include a suitable slot for the passage of recirculation air from the room;
- if the Air Diffuser Kit is installed, it must be possible to inspect or replace the fans;
- wooden parts must be protected with fireproof panels, which must not be placed against one another but spaced at least 1 cm apart to enable air to flow and prevent heat build-up. The gather hood can be made with fireproof panels, plasterboard or gypsum slabs; during construction, the hot air ducting kit must be mounted as described above.

The interior of the gather hood should be aerated by exploiting the flow of air coming from below (the space between the door and mantel) which convective currents will cause to exit from the grille on top, thus allowing heat recovery and preventing undue overheating.
In addition to that mentioned above, take into account the regulations in force in the relevant country concerning “insulation, finishes, facings and safety recommendations”.

FIRST IGNITION (COMMISSIONING) PHASES

- Make sure you have read and understood this manual.
- Remove all flammable materials from the appliance (manuals, labels, etc.). In particular remove any labels from the glass.
- Make sure that the technician performs the first ignition and the first loading of the pellet tank. Refer to the “Various Menus” chapter, paragraph “pellet loading”.

On first ignition, there may be a slight smell of paint, which will disappear in a short time.

FUEL

Use UNI EN ISO 17225-2 category A1 wood pellets or similar regulatory products with the following characteristics.
diameter 6 mm
length 3-4 cm
humidity <10 %
For reasons of safety and environmental compatibility, DO NOT burn plastic, painted wood, coal, bark or other such materials in the stove.
Do not use the stove as an incinerator.

Caution
Using fuels other than those specified can damage the appliance

VENT

During normal operations the vent is automatic. The need for a manual vent for the system can only be assessed by the technician during commissioning.

LOADING THE PELLETS INTO THE TANK

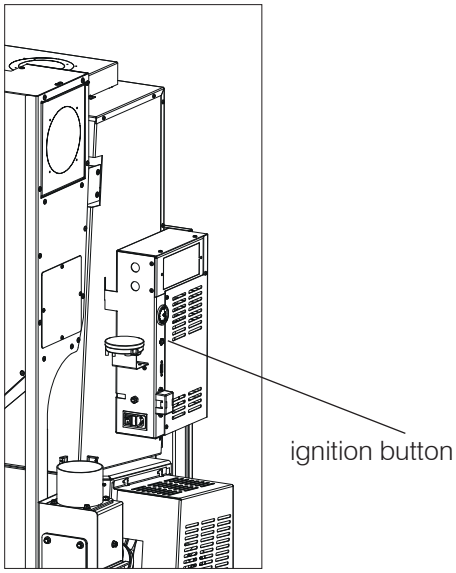
Load the pellets from the right-hand or left-hand hatch, as decided during the installation phase.

INTERFACE

The user interface is the remote control but, should this device not be available, you can control the product with the button located on the left side (see figure below):

WITH THE PRODUCT OFF
1. Press the button for 2" to switch the product on.

2. WITH THE PRODUCT ON
press the button for 2" to switch the product off.



REMOTE CONTROL

Characteristics:

RF transceiver module, frequency 2.4 GHz Powered by two AAA 1.5 V batteries rated at least 1200 mAh.

Risk of explosion if the batteries are replaced with other batteries of an incorrect type.

BUTTONS

The remote control has 5 buttons

ON/OFF button

manual on/off button and for switching the remote from energy saving mode to active heating.

+/-: to increase/decrease the set values or scroll between the Menu options

M: menu key / relax mode key

OK: confirm key, switches to the next setting and between automatic and manual modes.

NOTES

- The remote control exchanges information with the logic board (including room temperature sensing in automatic mode) every 2‘ and when it is activated by pressing the ON/OFF button.
- In normal use, the remote control's batteries should last a year. This is an approximate value, since it depends on both the type of batteries and the intensity of use. Edilkamin and the reseller will not consider claims for battery life under any circumstances. If the battery charge is low, a warning displays at the top left (see the paragraph on “If problems arise”).

POWER SAVING If it is not used, the display will go black after 20”, as the power saving mode is automatically activated. The display turns black without text. This only refers to the remote control, not the product itself.

To activate it, press ON/OFF.

DO NOT PRESS THE ON/OFF BUTTON REPEATEDLY; otherwise in manual mode, you may inadvertently switch the product on and off.

REMOTE CONTROL POWER

- Open the bottom of the remote control and insert the 2 batteries in the way indicated.
- Supply mains power to the product.
- **WHEN YOU HEAR THE AUDIBLE SIGNAL, PRESS THE ON/OFF BUTTON**

Otherwise the remote control will not work.

THE TRANSMISSION OF THE SIGNAL FROM THE REMOTE CONTROL TO THE PRODUCT IS CONFIRMED BY AN AUDIBLE SIGNAL.

IF THE AUDIBLE SIGNAL DOES NOT SOUND, THIS MEANS THE BUTTON WAS PRESSED TOO BRIEFLY.

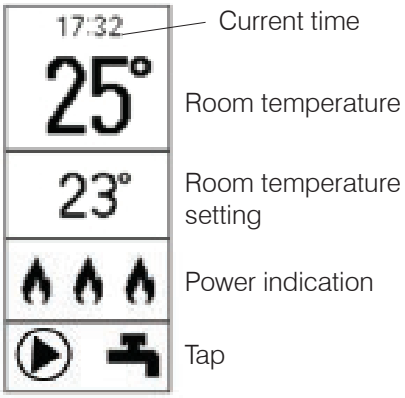
If at the first switch-on operation the language is not set, the adjacent language selection screen will appear.

Select the language with the +/- keys and confirm it with OK. You are now asked to confirm or set the Time and Date. Set the values with the +/- keys and confirm with OK. The day of the week is calculated automatically using a perpetual calendar.

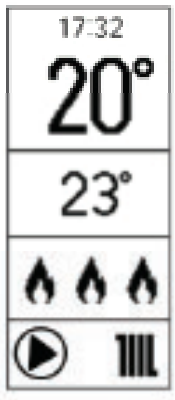
The display will show:

- the symbols of the heat request (radiator, tap, pump activation);
- the current time;
- the room temperature*;
- the operating power of the product (from 1 upwards), as represented by the flame symbols;
- the fan speed, as represented by the filled blades symbol (if absent, the fan is off).

Example of domestic hot water request.



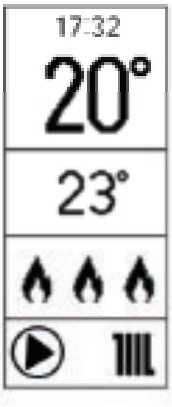
If you are using a room thermostat instead of the room probe provided as standard, the display will appear as below. The heat demand is indicated by the radiator symbol.



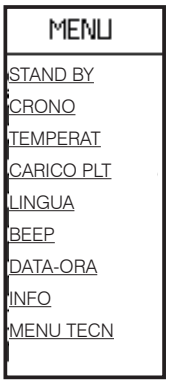
* The product is programmed by default with a delta of +/- 1 °C to optimise comfort.
The technician can change this setting during commissioning to suit the needs of the application.
The display shows the temperature rounded down. This means that 20.1°C and 20.9°C are indicated as "20°".
E.g., with the room temperature set to 20° C, the product will enter modulation mode/switch off when a temperature of 21° C is reached and will switch on again below 19° C.

SIMPLIFIED USE after first ignition

In default mode, with the product connected to the power supply, press the ON/OFF button on the display to “activate” the boiler stove and adjust the desired room temperature with the +/- buttons. The boiler stove will switch on and off and will adjust its power automatically to keep the set temperature.



By pressing the “M” button you access the Menu screen.



The product operates with the **POSSIBLE MODES** (described below):

- **OFF MODE**
- **ON MODE**
- **STAND BY MODE**
- **ALARM MODE**

OFF MODE

The product is “disabled” and does not produce heat. The product may turn on only for the anti-freeze function (described on this page). You can set the product to the OFF mode by pressing the ON/OFF button on the display. Also an external contact (crono, phone dialler) may switch the boiler stove to the OFF mode.
Pressing the +/- keys has no effect. Pressing the M key displays the Menus.
The display shows the current time, room temperature and the status in relation to which the product is OFF.
The product can be in the OFF mode in these cases:

- due to manual operation of the user (with probe)
- due to Crono
- due to Black Out

ANTI-FREEZE (selectable from the Menu only by the Technical Assistance Centre during commissioning)

Can only be activated from OFF and STAND-BY modes.
The function preserves only the heating circuit, not the domestic hot water circuit.
The anti-freeze has two levels:

- level 1: pump on
- level 2: pump and boiler stove on; it is activated by the anti-freeze mode “level 1” if the probe temperature reads a temperature which is below the Anti-freeze Setpoint.

The activation of the anti-freeze (both level 1 and level 2) is indicated by the symbol “frost” on the display.

From the OFF screen, press and hold the ON/OFF button to go to the ON screen.

ON MODE

The product is “active” and can produce heat. The product can be on/in ignition.
The display shows

- the current time
- the current room temperature (top number in the main area)
- the set room temperature (bottom number in the main area)
- the power level (represented by the flames)
- the fan level (represented by the filling in of the blades).

ON MODE with STAND BY

In ON mode with STAND BY (the product is "active" but with stand by function enabled) the product turns on only with heating demand. If the Stand By function is active, the display shows the same information as in the ON state without flame (on the top left you will see "STB").

The LCD shows the following information:

- product mode (STB)
- the current time
- the room temperature (or the mode of the room thermostat)
- the activation of the timer programming if present (Timer/Crono)

While in stand-by mode, and ON, the product turns on only if there is a heat request.

If the product was operating, it switches to minimum power and waits for the set time before going off.

If the product was in the ignition phase, it completes the ignition phase and switches to minimum power and waits for the set time before going off.

If the product was OFF and is switched to ON, the stove goes immediately to stand-by without ignition.

ALARM MODE

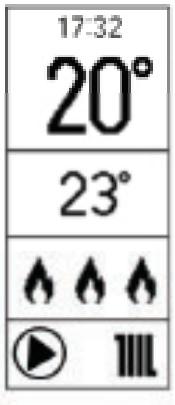
In case of Shutdown due to alarm, the display shows the type of alarm. See the paragraph "Troubleshooting"

By the remote control you can:

- **Switch from OFF to ON modes, by pressing and holding the ON/OFF button**
- **Set the desired room temperature with the +/- buttons (see below)**

Switching on and off will take a few minutes, during which the flame must appear or go off. Just wait without taking any action.
During ignition, the display shows the text "START".
During switch-off, the display shows the text "OFF".

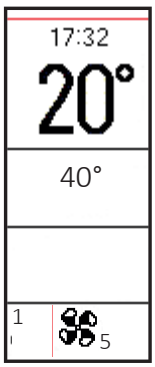
In default mode, with the product connected to the power supply, press the ON/OFF button on the display to "activate" the boiler stove and adjust the desired room temperature with the +/- buttons. The boiler stove will switch on and off and will adjust its power automatically to keep the set temperature.



- **To change the fan setting.**

Press "OK" in the main screen.
The bottom of the display will show the fan icon with the numbers reporting the fan speed.
You can:

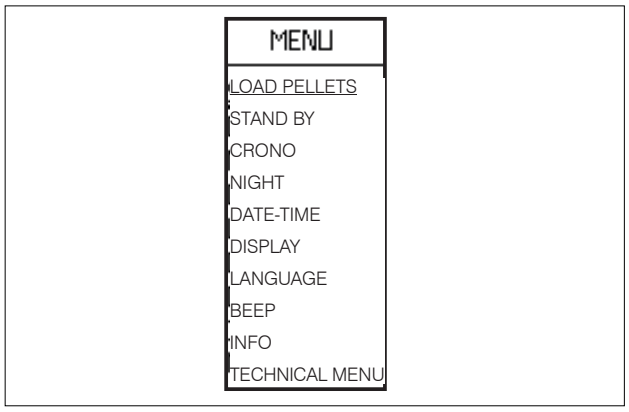
- modify the setting with the "+/-" buttons
- save the changes with the "OK" button. This returns you to the main screen.



Menu

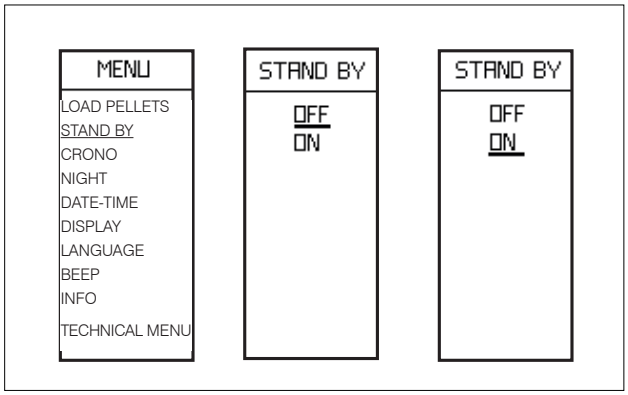
Press the “M” button to display the menu.
When the menu displays, the buttons have the following functions:
“+” : scroll up
“-” : scroll down
press and release “OK”: enter menu option
press and release “M”: quit menu option

Press the ON/OFF button to confirm and return to the main screen.



Stand by

When the Stand by function is active, in automatic and crono mode, the product shuts off when the temperature setpoint is reached and turns on again when the room temperature drops.
When the Stand By function is not active, the product sets itself to minimum power when the temperature setpoint is reached.



To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing the “OK” button.
Use the “+/-” buttons to select OFF or ON.
To exit without saving, press the “M” button
If you selected ON, the display shows the minutes for which the product will continue running at minimum power even when the temperature setpoint has been reached.
Use the “+/-” buttons to increase or decrease this time in minutes.
Press “OK” for two seconds to confirm and return to the previous menu level.

Press the ON/OFF button to return to the main screen.

The product is programmed by default with a delta of +/- 1°C to optimise comfort.
The technician can change this setting during commissioning to suit the needs of the application.
The display shows the temperature rounded down. This means that 20.1°C and 20.9°C are indicated as “20°”.
E.g., with the room temperature set to 20°C, the product will enter modulation mode/switch off when a temperature of 21°C is reached and will switch on again below 19°C.

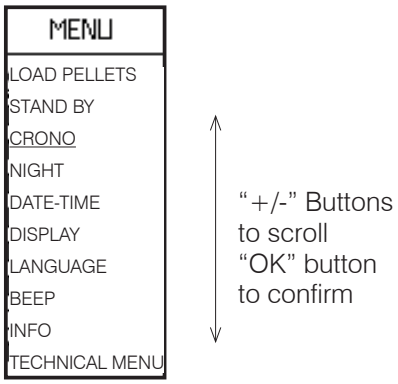
Crono

When the Crono function is active, the user sets a temperature setpoint and a time zone for which that setpoint is specified.
The setting takes different steps, which can also be not consecutive:

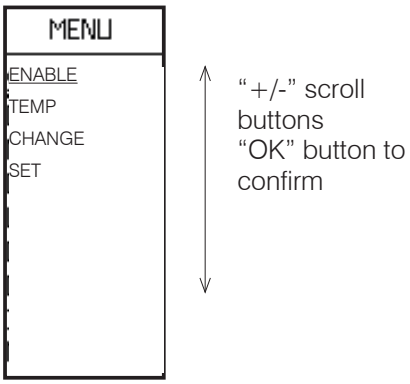
- enabling the Crono mode to 7 days a week or on single days ("ENABLE" on the display);
- setting three temperature setpoints, making sure that T1 is always lower than T2 and T2 lower than T3 ("TEMP" on the display);
- combining one of the three temperatures (T1, T2 or T3) with a time period ("SET" on the display).

Once the settings are complete, you can display/ change the time periods and the set temperatures ("CHANGE" on the display).
The ON/OFF button always allows you to return to the main screen.

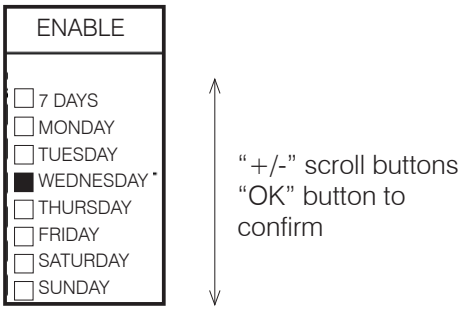
To enter the Crono function from the main menu**,** press "M" once from the active display.
Scroll down to "Crono" (underlined) using the "+/-" buttons.
Press "OK" to confirm and select the Crono function.
To go back to the previous screen press the "M" button.



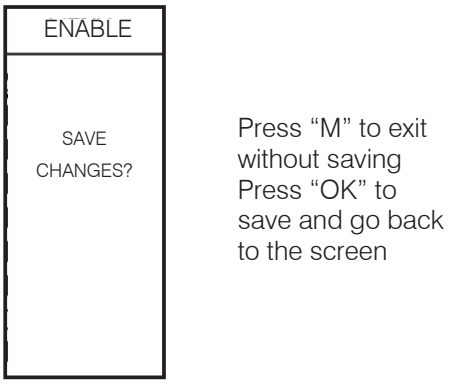
The following screen will appear. Scroll to "ENABLE" (underlined) using the "+/-" buttons.
To enable the Crono function to 7 days a week or on single days ("ENABLE" on the display), press the "OK" button.
To go back to the previous screen press the "M" button.



Scroll to the desired position (eg. "7 DAYS", underlined) using the "+/-" buttons.

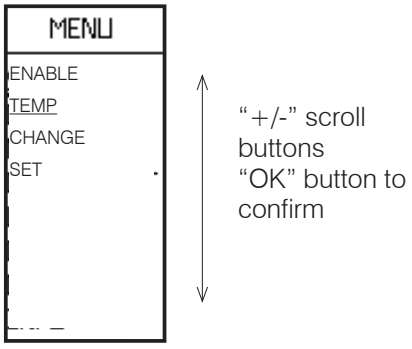


The selected option is identified by a black square on the right, instead of a white one (e.g. on Wednesday if selected).
To continue with other changes, press the "OK" button.
To choose between exit without saving and save, press the "M" button.
The following screen will appear.

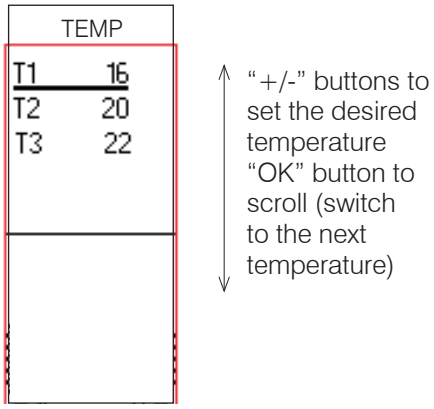


The Crono function is disabled when none of the items is selected.
When the Crono function is disabled, the product operates in automatic mode.

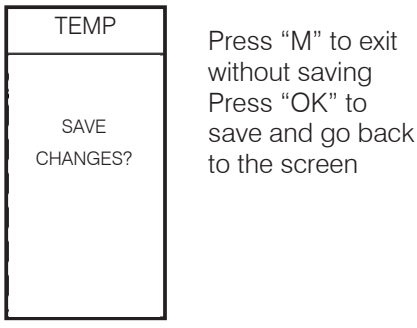
To set the temperature setpoints ("TEMP" on the display), from the Crono function, press the "OK" button. The following screen will appear.
Scroll to "TEMP" (underlined) using the "+/-" buttons.
Press the "OK" button to confirm and select "TEMP".
Press the "M" button to go back to the previous screen.
press the "OK" button to enter the "I TEMP" function.



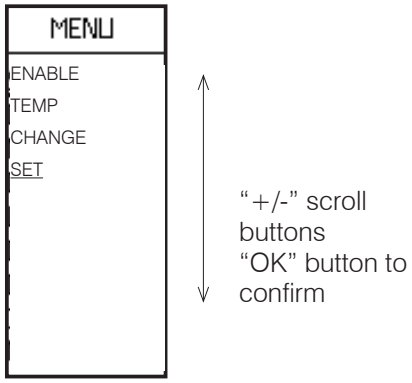
The Crono has three adjustable setpoints: T1, T2 and T3 (screens below).
Press the "OK" button to switch between the setpoints.
Use the "+" and "-" buttons to set the desired temperature setpoint for each level.
T1 must always be lower than T2 and T2 than T3: if you try to set a T1 temperature that is greater than T2, T1 temperature will automatically match T2.



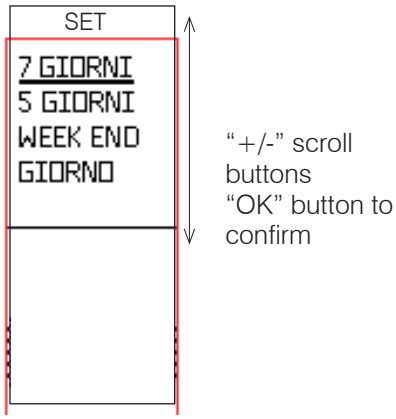
To continue with other changes, press the "OK" button.
To choose between exit without saving and save, press the "M" button.
The following screen will appear.



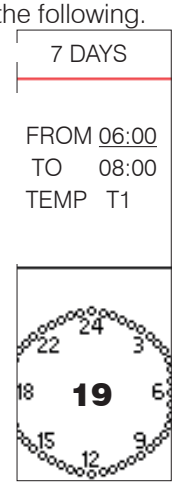
To combine one of the three temperatures to a time period ("SET" on the display), from the Crono function, press the "OK" button. The following screen will appear.
Scroll to "SET" (underlined) using the "+/-" buttons.
Press the "OK" button to confirm and select "SET".
Press the "M" button to go back to the previous screen.
press the "OK" button to enter the "SET" function.



The first page (below) allows you to choose whether to apply the same Crono configuration for 7/7 days, 5/7, weekend only or day by day.



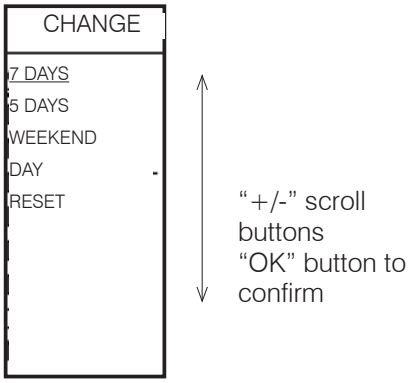
The second screen (accessible by pressing the “OK” button from the first screen) allows you to set the start and end time of the time period matching the chosen temperature setpoint (T1,T2 and T3).
The set temperature is shown in the middle of the clock.
This is done in steps of 30’. The ignition times are indicated by the fact that the dots are black. In zones with white dots, the appliance is OFF
The setting screen is the following.



Press the “+/-” buttons to change the switch-on time.
Hold the button down to scroll through the times more quickly.
Press the “OK” button to confirm and go to the end time setting.
Press the “+/-” buttons to change the switch-off time.
Hold the button down to scroll through the times more quickly.
Press the “OK” button to confirm and go to the temperature selection (T1, T2 or T3).
Press the “+/-” buttons to switch between the temperatures
To continue with other changes, press the “OK” button.
To choose between exit without saving and save, press the “M” button.
The following screen will appear.

Press “M” to exit without saving
Press “OK” to save and go back to the screen

To view/change the settings (“CHANGE” on the display), from the Crono function, press the “OK” button. The following screen will appear.
Scroll to “CHANGE” (underlined) using the “+/-” buttons.
Press the “OK” button to confirm and select “CHANGE”.
To go back to the previous screen press the “M” button.



From the “CHANGE” function, in addition to changing/viewing the “7 DAYS”, “5 DAYS”, “WEEKEND”, “DAY” programming, you can **erase all time settings using the “RESET” function**

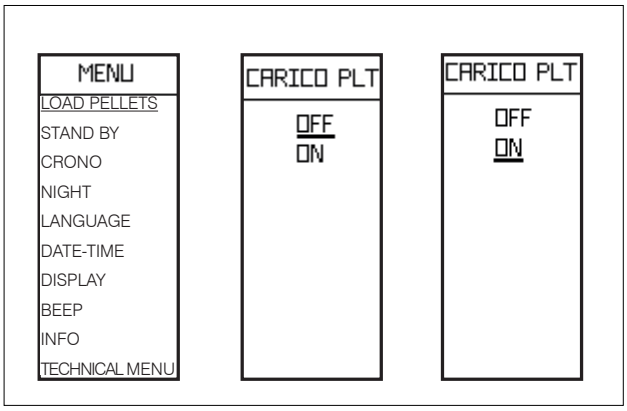
Use the “+/-” buttons to switch between YES and NO
Press the “OK” button to continue with other changes

NOTE
When the Crono function is enabled, press the On/Off button to switch on/off the product outside the programmed times.
This causes the deactivation of the crono function.

Follow the instruction in the paragraph Crono to re-enable the Crono function.

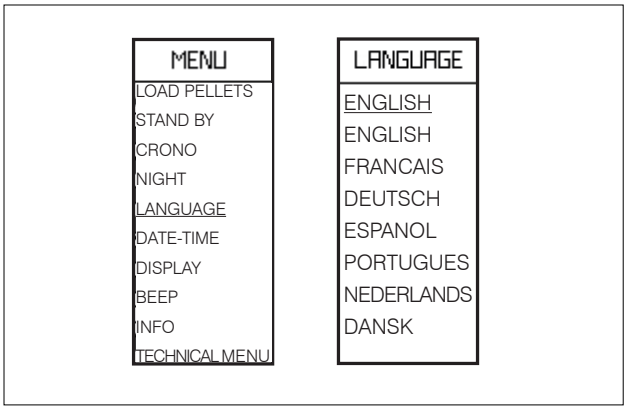
Load Pellets

Allows you to load pellets after the screw feeder has emptied following a no-pellets alarm.
Useful for the technician during commissioning.
Available only in the OFF state. If you attempt to activate the function in other states, access is not granted.
To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing OK.
Use the "+/-" buttons to activate/deactivate the function.
Press "M" to quit without saving.
Confirm by pressing the "OK" button for 2 seconds.

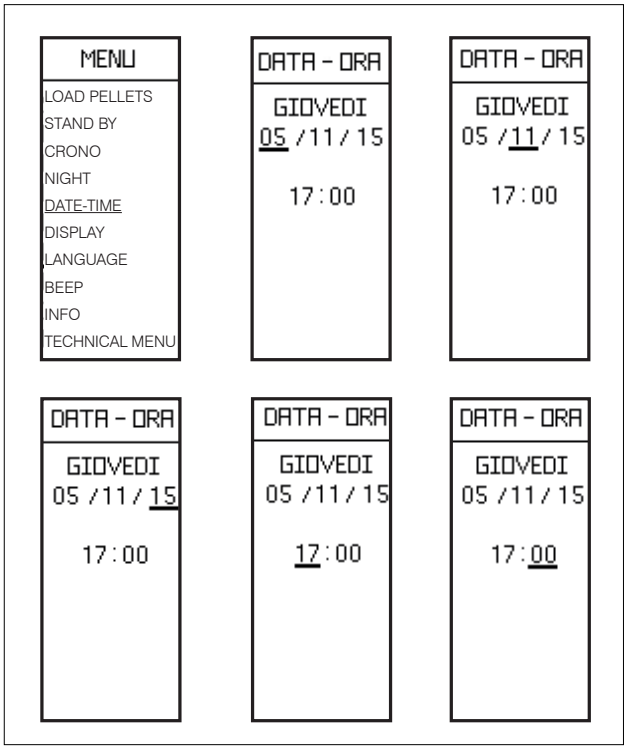


Language

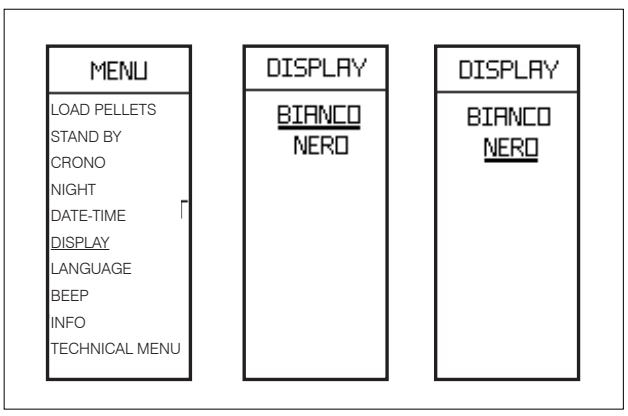
Selects the language.
This displays the first time the remote is activated with the product powered on, or by selecting the option in the menu.
To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing OK.
Use the "+/-" buttons to select the language.
To exit without saving, press the "M" button.
Confirm by pressing the "OK" button for two seconds.



Date/Time
Sets the current date/time.
This displays the first time the remote control is activated with the stove powered on, or by selecting the option in the menu.
To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing OK.
Use the "+/-" buttons.
Press "M" to quit without saving.
Confirm by pressing the "OK" button for 2 seconds.



Display
It allows you to choose the background of the display, from white to black, or deactivate the lighting (Led ON - Led OFF).
To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing OK.
Use the "+/-" buttons to select the colour.
Press "M" to quit without saving.
Confirm by pressing the "OK" button for 2 seconds.



Beep
Allows you to enable/disable the beep.
To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing OK.
Use the "+/-" buttons to select On/Off.
Press "M" to quit without saving.
Confirm by pressing the "OK" button for 2 seconds.

Info
These readings should only be done when requested by the technician.
The technician understands the diagnostic meaning of the messages and numbers, and may ask you to read them to him/her if you experience problems.

Technical menu
Accessible only to an authorised technician with the appropriate password.

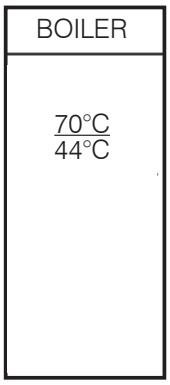
Setting the water Temperature ("TEMPERATURE" on the display)

Allows you to set the boiler temperature and the accumulator temperature. If the external probe is active, it allows you to set the climatic curve instead of the boiler temperature.

To access the function from the main menu (as indicated in the Menu section above), press the M button. Scroll using the +/- buttons and select the function by pressing the "OK" button.

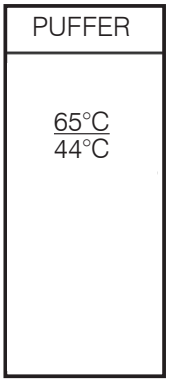
Choose the option with the "+/-" buttons, press "OK" to change the setting

You can set the water temperature in the boiler stove (BOILER on the display)



In presence of external probe, the water temperature is automatically calculated according to the outside temperature. You can set the curve as shown in the figure at the side (CURVE on the display)

In presence of accumulator tank, you can set its temperature as shown in the figure at the side (PUFFER on the display)



The domestic hot water boiler is set as shown at the side (BOILER on the side of the display)

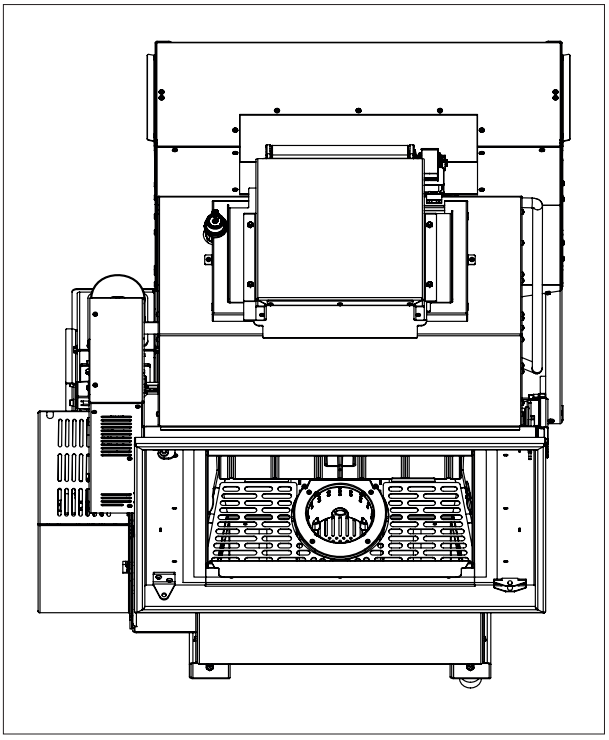
Disconnect the product from the power supply.
Failure to service the product properly will prevent it from working properly.
Any problems due to failure in servicing the stove will void the warranty.

DAILY MAINTENANCE

These operations must be done with the product off, cold and preferably disconnected from the mains.
A suitable vacuum cleaner is required.
The entire procedure takes just a few minutes.
Operations are represented in the figures whose numbers correspond to the instructions on this page.

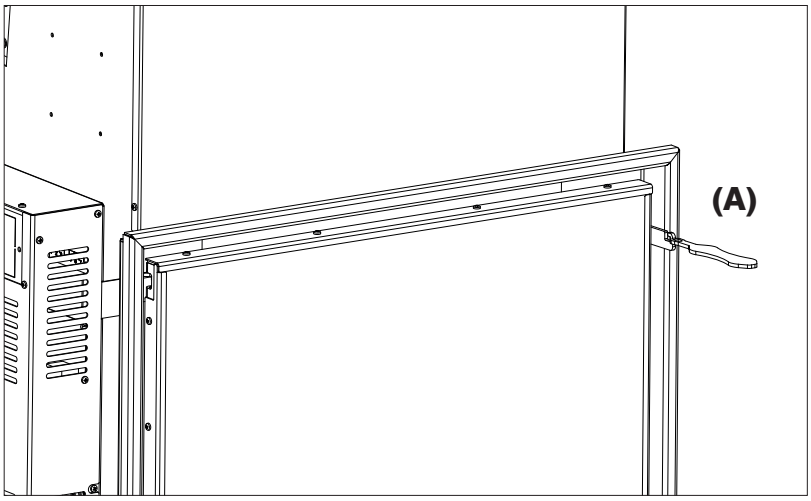
Do not dump the cleaning residue into the pellet tank.
Once it is refitted, make sure that the ash tray is properly placed in its housing, to avoid glass breakage when closing.
Make sure that the grate is properly placed in its housing after maintenance operations, if not, the stove may have ignition problems.

Using the producto without cleaning the grate can cause the gas in the combustion chamber to ignite and detonate.

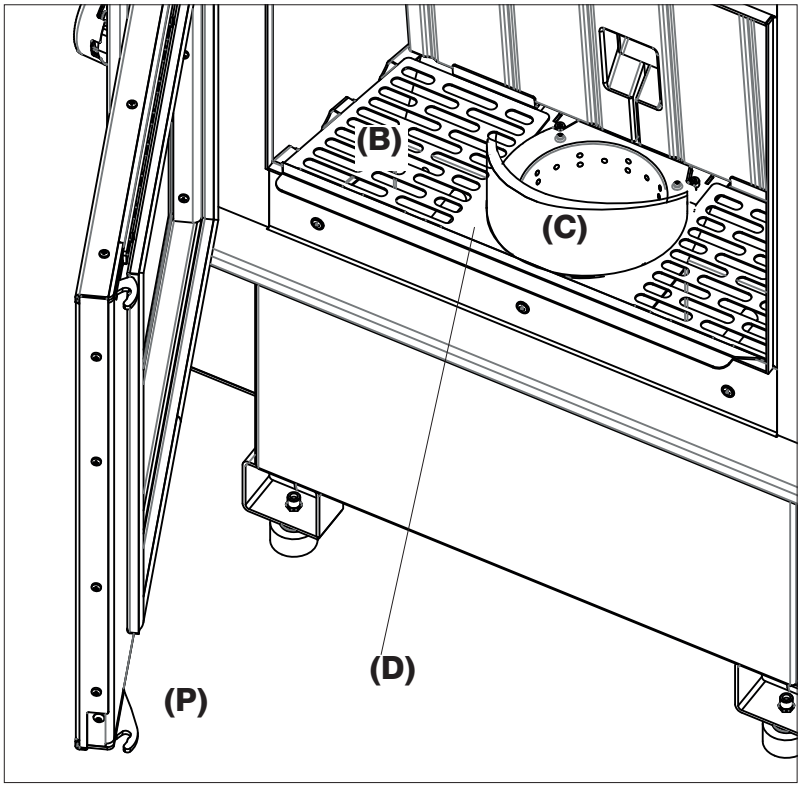


DAILY MAINTENANCE

1. manually pull/push for 3/4 times the turbulator knob, located at the top right-hand side (A)



2. Open the combustion chamber door (P)
3. Remove the grille (B)
4. Remove the two-part burning pot (C)
5. Remove the ash tray (D)
6. Empty the ash tray and burning pot into a non-flammable container (the ashes may still contain embers and/or hot parts) or vacuum them once they are cold. Vacuum the interior of the combustion chamber, the bed, and the compartment around the burning pot into which the ash falls.
7. Scrape the burning pot with the provided scraper and clean out any obstructed holes.
8. If necessary, clean the glass (when cold) using a suitable product (e.g. Glasskamin), which your dealer should have.



SEASONAL MAINTENANCE
(to be carried out by the technical assistance centre)

This consists of cleaning the stove inside and out.

If the product is used intensively, we recommend cleaning the fumes duct and flue every 3 months.

You should clean the chimney system at least once a year (check local regulations for details).

If you fail to regularly clean and inspect the system, there is an increased risk of the chimney pot catching fire.

We remind you not to use compressed air during the seasonal maintenance for cleaning the air inlet pipe.

Please note maintenance is important and must be done according local rules by a certified technician

SUMMER SHUTDOWN

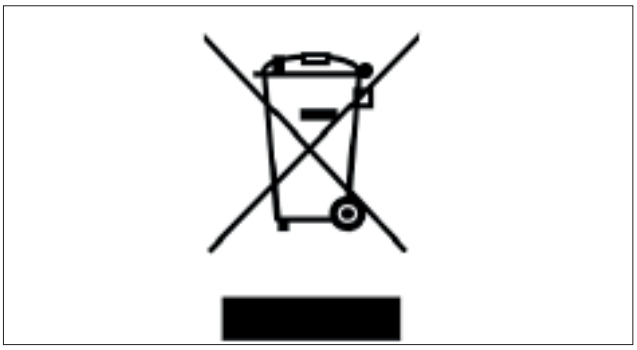
During the period of disuse, keep the stoves doors, hatches and lids closed.
We recommend emptying out the pellet tank.

SPARE PARTS

For any spare parts, contact your reseller or technician.
Official dealers and service can be found on www.EDILKAMIN.COM
Using non-original spare parts may damage the appliance and relieves Edilkamin of all liability for damage resulting therefrom.

DISPOSAL

At the end of its service life, dispose of the product as required by regulations.
Deliver to the special recycling centres.



In accordance with art. 26 of Legislative Decree no. 49 of 14th March 2014, “Implementation of Directive 2012/19/UE on the disposal of electrical and electronic devices (RAEE)”.
The crossed-out dustbin symbol displayed on equipment or its packaging indicates that the product at the end of its life must be collected separately from other waste.
At the end of its useful life, the user should therefore deliver the product to a suitable local sorted collection centre for electrical and electronic devices.
Sorted collection for recycling, treatment and environmentally compatible scrapping contributes to the prevention of negative effects on the environment and health, and promotes the re-use and recycling of the materials of which the equipment is made.

If problems occur, the product shuts itself off automatically.
The display will show the reason (see below).

Do not disconnect from the power supply.
To start the product up again, allow the shut-down procedure to complete, then press the ON/OFF button.

Before starting the product up again, check the reason for the shutdown and CLEAN THE GRATE.
The product is equipped with a safety valve but, if the grate is not cleaned regularly as explained above, ignition may involve a small detonation. If white smoke forms in the combustion chamber for a long time, disconnect the mains supply and wait 30 minutes before opening the door and emptying out the grate.

SHUTDOWN MESSAGES AND THEIR SOLUTIONS:

MESSAGE	PROBLEM	SOLUTION
H01	displays when the combustion air intake is below the set level	• Check that the combustion chamber door is closed • Check the regular maintenance of the stove • Check that smoke discharge and combustion air ducts are clean.
H02	displays when the logic board does not detect the correct smoke fan speed	• Contact the technician
H03	displays when the thermocouple detects a smoke temperature lower than the set value and interprets this as the absence of flame	• Check that there are pellets in the tank • Check if the water temperature has increased due to the closing of a valve (contact the technician) • Contact the technician
H04	displays when ignition times out unsuccessfully	There are two possibilities: NO flame: • Check that the grate is seated properly and is clean • Check that there are pellets in the tank and grate • Use a piece of solid paraffin to light the stove (contact the technician first) Flame present: • Contact the technician
H05	Shut down due to air flow rate sensor breakage	• Contact the technician
H06	displays when the logic board determines that the smoke temperature probe is broken or disconnected	• Contact the technician

MESSAGE	PROBLEM	SOLUTION
HO7	Shut-down due to exceeding maximum smoke temperature	• Check the type of pellet (contact the technician if in doubt) • contact the technician
H08	Switching OFF due to excessive overheating of the product	• see HO7
H09	Shut down due to gear motor breakage or seizure	• Contact the technician
H10	Switching OFF due to circuit board overheating	• Contact the technician
H11	Switching OFF due to the intervention of the safety pressure switch	• Ensure the stove and flue are clean • Contact the technician
H12	Room temperature probe failure.	• Contact the technician
H13	Shut-down due to breakage of the reading water temperature probe of the boiler stove	• Contact the technician
H14	Shut-down due to breakage of the water temperature probe in the boiler	• Contact the technician
H15	Shut-down due to exceeding maximum water temperature in the boiler stove	• Contact the technician
H16	Shut-down due to breakage of the pressure switch for reading water pressure of the boiler stove	• Contact the technician
H17	Shut down due to breakage of external probe	• Contact the technician
H18	Shut-down due to breakage of the water temperature probe in the accumulator tank	• Contact the technician

IN PRESENCE PELLET LEVEL SENSOR
Pellet level sensor is used to alert customer that pellet is running out and that stove will shutdown in about half-anhour
time, showing “OFF” and “PLT” on the display.

Once installed, sensor cannot be turned off by the end user.

WATER OVERHEATING (SHUT-DOWN WITHOUT ALARM)

If the water in the boiler stove reaches a temperature of 85°C, the boiling stove shuts down without switching to alarm mode. The text STBY appears on the display next to the room temperature.
The product is working, but it must be serviced by an authorised Edilkamin technician.

MAINTENANCE (SIGNAL THAT DOES NOT CAUSE SHUT-DOWN)

A wrench symbol is shown on the display after 2000 hours of operation.
The product is working, but it must be serviced by an authorised Edilkamin technician.

Licensed and qualified Technical Assistance Centre/Edilkamin retailers company names are available on the Edilkamin website
www.edilkamin.com ONLY.

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