



PELLKAMIN H 17
PELLKAMIN H 22
PELLKAMIN H 22+

MANUAL
installation use maintenance

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1. NOTE ON EDITION AND LANGUAGE

1.1. Note on the language of the manual

Original edition in Italian. Manuals in other languages are translated from the original manual in Italian.

1.2. Digital online edition

Dear Customer/Installer

Please read this document carefully together which can be found inside our product.

The information contained in it are suggestions which in no way replace the responsibility of the installer - maintenance technician.

All local and national laws and European Standards must be complied with as regards the correct sizing, installation, maintenance and use of the product.

For installation and for anything not expressly mentioned, please refer to local and national regulations in the country where the product is used.

The diagrams in this manual are purely indicative and in no way can the company be held liable.

How to download the manual:

- access the download area, www.edilkamin.com
- click on "Installation, use and maintenance manual".
- Select the language, the product type and the product name.
- Download the manual in pdf format.



This document may be subject to changes dictated by the Manufacturer or by the regulations in force at the time of purchase.

The updated version that is currently in force will always be available from the download area of the website edilkamin.com.

2. CE MARKING INFORMATION

The writer EDILKAMIN S.p.a., with registered office in Via P. Moscati 8 - 20154 Milan - Fiscal Code/VAT No. 00192220192, declares under its own responsibility that the products shown on the cover comply with EU Regulation 305/2011 and with the harmonised European product standard in force

The declaration of performance is available on the website www.edilkamin.com

It also declares that:

the products shown on the cover meet the requirements (where applicable) of the following European Directives:

2014/35/EU-Low Voltage Directive (for products with electrical components)

2014/30/EU-Electromagnetic Compatibility Directive (for products with electrical components)

2014/53/EU:RED (for products with radio remote control)

2011/65/EU-RoHS Directive

2009/125/EU-Ecodesign

2010/30/EU-Labelling

3. INTRODUCTION

USER/INSTALLER

Dear Madam / Sir

We thank you and congratulate you for choosing our product. Please keep the manual for the entire service life of the product. If lost, ask your retailer for a copy or download it from the download area on the website www.edilkamin.com

3.1. Recipients of the manual

This manual is for:

- the person who uses the product at home ("USER")
- the technician who installs the product ("INSTALLER") who can find other material on the website

The recipient of the chapter (USER/INSTALLER) is indicated at the start of the chapter

3.2. General notes

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

If any anomalies are found, immediately contact the retailer from whom it was purchased, to whom a copy of the warranty certificate and of the tax document must be given.

All local and national laws and European Standards must be complied with as regards the correct sizing, installation, maintenance and use of the appliance. For installation, maintenance and for anything not expressly mentioned, please refer to the local regulations in force in the country where the product is used.

The diagrams in this manual are purely indicative: they do not always strictly refer to the specific product and in no case are they contractual.

3.3. Meaning of the symbols

	PROHIBITION: Indication of operations that must NOT be performed, to avoid damage.
	ATTENTION: Carefully read and understand the message it refers to because failure to comply may result in serious damage to the product and put the user's safety at risk.
	INFORMATION: Not following these instructions will compromise the use of the product.

3.4. Product identification and warranty.

The product is uniquely identified by a number, the “warranty slip or serial number” which can be found on the warranty certificate. Please keep:

- The warranty certificate that you found in the product
- The tax document issued by the retailer
- The declaration of conformity issued by the installer. Check local and national regulations.

The warranty conditions are indicated in the warranty certificate which can be found in the product and on the website www.edilkamin.com



This document may be subject to changes dictated by the Manufacturer or by the regulations in force at the time of purchase.

The updated version that is currently in force will always be available from the download area of the website edilkamin.com.

3.5. CE plate: Data and position



We recommend taking a photo of the CE plate, which shows the data according to the harmonised product standard and the warranty slip (serial number), for all required uses.

The CE plate can be found on the back of the product

3.6. Symbols on data plate

Symbols	Description
Pw nom	Rated water power
Pw part	Reduced water power
η nom	Rated yield
η part	Reduced yield
CO nom (13%O ₂)	Rated CO
CO part (13%O ₂)	Reduced CO
NO _x nom (13%O ₂)	Rated NO _x
NO _x part (13%O ₂)	Reduced NO _x
OGC nom (13%O ₂)	Rated OGC
OGC part (13%O ₂)	Reduced OGC
PM nom (13%O ₂)	Rated dust emissions
PM part (13%O ₂)	Reduced dust emissions
p nom	Rated power
p part	Reduced power
T nom	Rated smoke temperature
T part	Reduced smoke temperature
ϕ f,g nom	Rated mass flow rate
ϕ f,g part	Reduced mass flow rate
dout	Fume outlet diameter
Pw	Maximum pressure
W	Rated electrical power according to EN 60335
Vh	Firebox classification according to pr EN 16510/Load loss
dR	Rear safety distance
dS	Side safety distance
dC	Upper safety distance
dP	Front safety distance
dF	Radiated floor safety distance
dL	Radiated side safety distance
dB	Floor safety distance

4. SAFETY INFORMATION

USER/INSTALLER

4.1. General notes for the safe use of the product

For the safe use of the product, carefully read the operating instructions section of the manual.

If something is not clear, do not act on your own initiative but contact the retailer or the installer. The names of Edilkamin's contracted and licensed technical service centres are available **ONLY** at www.edilkamin.com

The product is not designed to be used by people, including children, with reduced physical, sensory or mental capabilities.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- Children shall not be allowed to tamper with the controls or play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

The product is not designed for cooking.

The product is designed to burn category A1 wood pellets in accordance with UNI EN ISO 17225-2, in the amounts and in the manner described in this manual.

The product is designed for indoor use and in environments with a normal level of humidity. Therefore, keep the product in a dry place, protected from adverse weather conditions.

The product is designed to operate only with the covers fitted. Otherwise there is a risk of accessible live parts.

4.2. Recommendations and prohibitions for the safe use of the product

Use the product only after it has been installed by qualified technicians in a workmanlike manner and in accordance with local and national regulations.

Power up the product only after it has been fully assembled and the covers have been fitted.

Do not install in rooms where there is a risk of fire. There is a risk of damage to property and people.

Do not touch hot parts and, when the product is off but still hot, use suitable precautions (e.g. fire resistant gloves).

Do not access internal parts. When it is connected to the electrical power supply, there is a risk of electric shock.

Do not ignite or stoke the flame with liquid sprays or flame throwers. There is a risk of serious burns and damage to property and people.

Do not burn waste, plastic materials or anything other than wood pellets. There is a risk of soiling the product, causing a fire in the chimney and damaging the room.

Do not vacuum hot ash. There is a risk of damaging the vacuum cleaner and possibly smoke in the room.

Do not clean using flammable or unsuitable products. There is a risk of fire or backdraught.

Do not clean the glass when it is hot or using unsuitable products. There is a risk of cracking the glass or causing irreversible damage to it.

Do not place flammable materials closer than the safety distances indicated in this manual and in the declaration of performance. For example, do not place drying racks closer than the safety distance. There is a risk of fire.

Do not keep any type of flammable liquid near the product. There is a risk of fire.

Do not block the ventilation openings in the room or the air inlets or chimney. There is a risk of smoke entering the room with the risk of causing damage to property and people.

Do not use the product as a support or as a ladder. There is a risk of damage to property and people.

Do not attempt to use the product with the door open or throw hot material out of the product. There is a risk of fire.

Do not use the product if the glass is broken.

Do not use water in case of fire and contact your local authorities.

4.3. Possible risks if the installation, operation and maintenance instructions are not followed

Risk of BURNS in case of contact with hot parts.

Risk of ELECTRIC SHOCK in case of contact with internal parts when connected to the electrical power supply.

Risk of INJURY to hands if used carelessly or by people with reduced skills, if the safety devices are removed or if access to the internal parts is attempted.

Risk of FIRE if the installation, operation and maintenance instructions are not followed.

Risk of ASPHYXIATION if failure to comply with the installation, operation and maintenance instructions results in the obstruction of the smoke exhaust and of the air intakes.

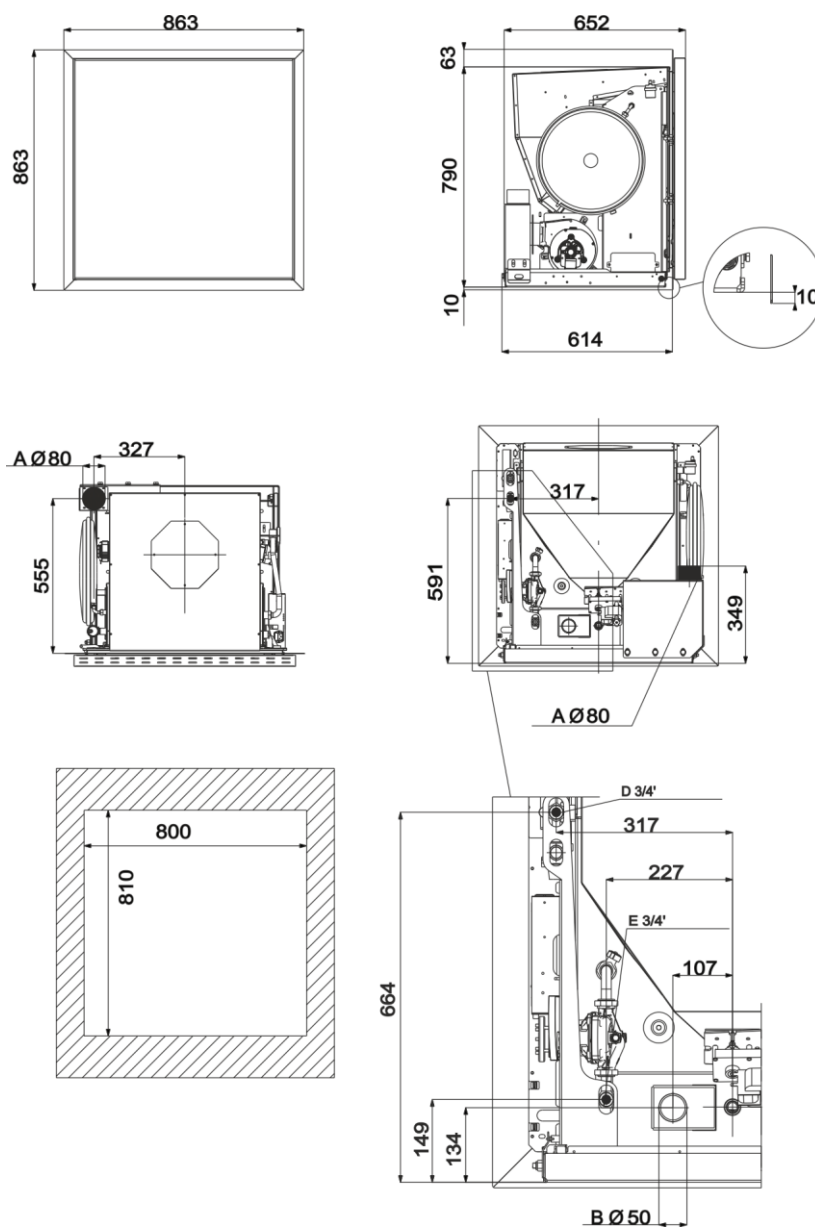
Risk of DAMAGE to property and people if the electrical system does not have an efficient earthing system.

	RISK OF OVERTURNING: The product can only be removed when it is switched off and secured to the base. The product removal instructions are given in this manual.
---	--

- A: smoke outlet
- B: combustion air inlet
- C: air outlet for ducting (if present)
- D: delivery (for hydro products)
- E: return (for hydro products)
- F: load (for hydro products)

Dimensions in cm

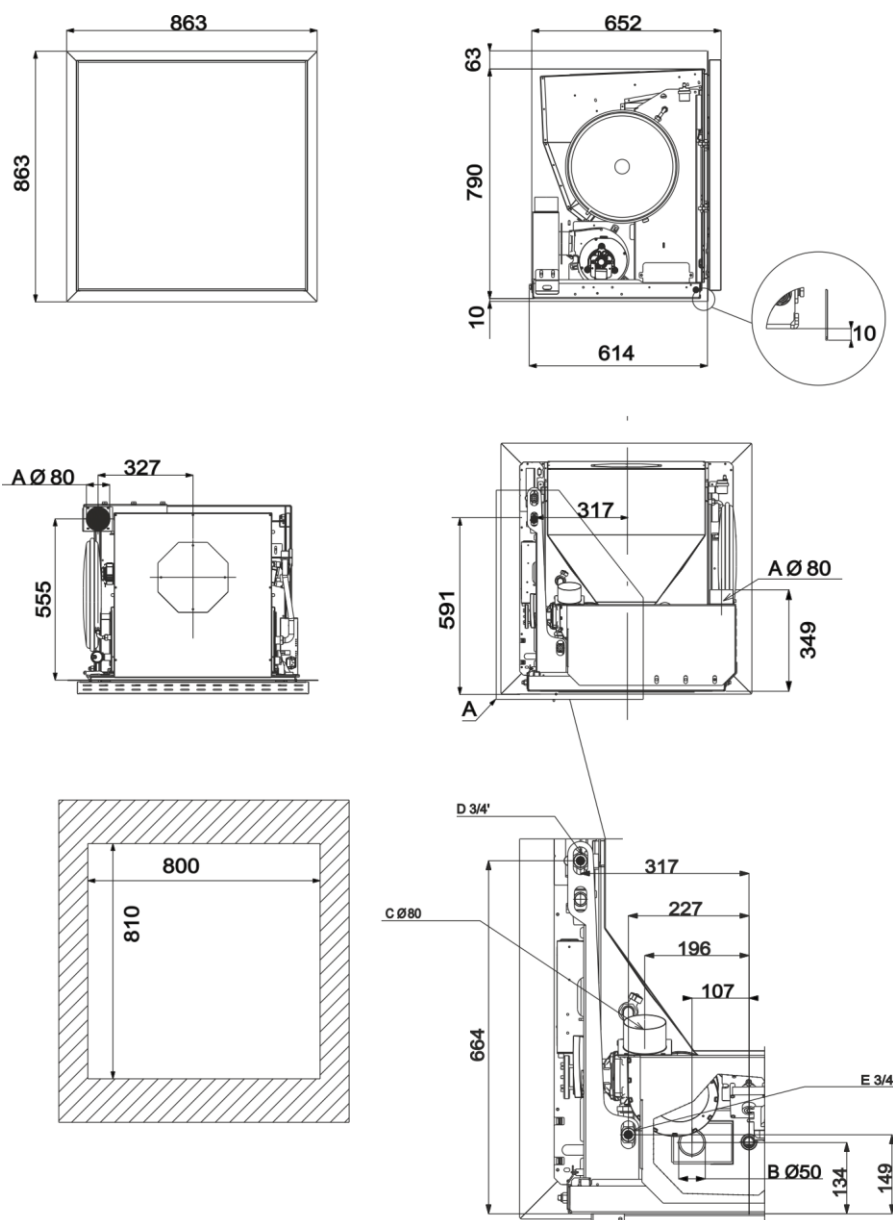
5.2. Pellkamin H 22



- A: smoke outlet
- B: combustion air inlet
- C: air outlet for ducting (if present)
- D: delivery (for hydro products)
- E: return (for hydro products)
- F: load (for hydro products)

Dimensions in cm

5.3. Pellkamin H 22+



6. TECHNICAL DATA

USER/INSTALLER

6.1. Technical data according to the product standard: PELLKAMIN H 17

The data shown is indicative and obtained during the certification phase at a notified body according to current regulations. The results were obtained with the glass cleaning air closed. It is the responsibility of the installer to use the gasket supplied and to adjust the parameters.

Quantity			
	PELLKAMIN H 17		
	Rated power	Reduced power	
Output power	16,5	6,5	kW
Output power to water	11	5,3	kW
Yield	90,5	88,9	%
CO emissions at 13% O ₂	0,019	0,003	%
Smoke temperature	160	123	°C
Fuel consumption	3,8	1,5	kg/h
Hopper capacity	18		kg
Draught	11	10	Pa
Autonomy	5	12	Hours
Water content	12		l
Expansion tank volume	6		l
Maximum operating pressure	2,5		bar
Maximum operating temperature	80		°C
Minimum volume of installation room	27,5		m ³
Heatable volume	430		m ³
Smoke duct diameter	80 M		mm
Air intake duct diameter	50 M		mm
Weight with packaging (ceramic)	165		kg
Energy efficiency class (Regulation 1185/2015)	A+		
Environmental Class according to the Italian Ministerial Decree 186	5 stars		
Minimum distance of combustible materials from Back/Side/Front	330/1500/2000		mm
Minimum distance of combustible materials from Ceiling/Floor	NPD: (No declared performance)		mm

NOTES ON THE TECHNICAL DATA

To calculate consumption, a heating value of 4.8 kW/Kg was used.

The heatable volume is calculated considering a heat demand of 33 Kcal/m³ per hour.

The autonomy may vary depending on the use/installation/fuel characteristics and it is not a contractual obligation, nor is it a possible cause for dispute.

The product can work safely also with a higher draught. However, an excessive draught may result in switch-off and/or decreased efficiency.

6.2. Technical data according to the product standard: PELLKAMIN H 22/PELLKAMIN 22+

The data shown is indicative and obtained during the certification phase at a notified body according to current regulations.

The results were obtained with the glass cleaning air closed. It is the responsibility of the installer to use the gasket supplied and to adjust the parameters.

Quantity			
	PELLKAMIN H 22 PELLKAMIN 22+		
	Rated power	Reduced power	
Output power	21,4	6,7	kW
Output power to water	19	5,4	kW
Yield	90	94	%
CO emissions at 13% O ₂	0,004	0,005	%
Smoke temperature	149	71,5	°C
Fuel consumption	5	1.5	kg/h
Hopper capacity	28		kg
Draught	12,9	10,9	Pa
Autonomy	6	19	Hours
Water content	24		l
Expansion tank volume	6		l
Maximum operating pressure	2.5		bar
Maximum operating temperature	90		°C
Minimum volume of installation room	12		m ³
Heatable volume	560		m ³
Smoke duct diameter	80 M		mm
Air intake duct diameter	50 M		mm
Weight with packaging (ceramic)	220		kg
Energy efficiency class (Regulation 1185/2015)	A+		
Environmental Class according to the Italian Ministerial Decree 186	5 stars		
Minimum distance of combustible materials from Back/Side/Front	200/200/1000		mm
Minimum distance of combustible materials from Ceiling/Floor	NPD: (No declared performance)		mm

NOTES ON THE TECHNICAL DATA

- To calculate consumption, a heating value of 4.8 kW/Kg was used.
- The heatable volume is calculated considering a heat demand of 33 Kcal/m³ per hour.
- The autonomy may vary depending on the use/installation/fuel characteristics and it is not a contractual obligation, nor is it a possible cause for dispute.
- The product can work safely also with a higher draught. However, an excessive draught may result in switch-off and/or decreased efficiency.

6.3. Technical data for sizing the chimney system

Quantity			
	PELLKAMIN H 17		
	Rated power	Reduced power	
CO ₂	12,7	5,6	%
Smoke temperature at exhaust	180	122	°C
Minimum draught	0,01		Pa
Flue gas flow rate	11,3	10	g/s

Quantity			
	PELLKAMIN H 22 PELLKAMIN H 22 +		
	Rated power	Reduced power	
CO ₂	9,19	6,26	%
Smoke temperature at exhaust	179	86	°C
Minimum draught	0,01		Pa
Flue gas flow rate	17,7	7,5	g/s

	The chimney system and the installation as a whole must comply with the instructions given in this manual and with all local and national regulations. The installer is responsible for the installation
---	---

6.4. Electrical data

Quantity		
	PELLKAMIN H 17	
Power supply	230	Vac
Frequency	50	Hz
Rated power consumption	54	W
Reduced power consumption	35	W
Power consumption in stand-by	2	W
Rated electrical power	81	W
Protection	Fuse 4 AT,250 Vac 5x20	

Quantity		
	PELLKAMIN H 22 PELLKAMIN H 22 +	
Power supply	230	Vac
Frequency	50	Hz
Rated power consumption	148	W
Reduced power consumption	103	W
Power consumption in stand-by	2	W
Rated electrical power	168	W
Protection	Fuse 4 AT,250 Vac 5x20	



The installation must comply with national and local regulations. For safety reasons, the electrical system must comply with legal standards. Correct earthing is essential.

6.5. ECODESIGN technical data: PELLKAMIN H 17



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REA n° 878888
Cod. Fiscale e Partita IVA 00192220192

TECHNICAL DOCUMENTATION FOR LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATION (EU) 2015/1185 AND 2015/1186

Manufacturer
Trademark
Model Identifier
Equivalent models

Edilkamin S.p.A.
Edilkamin
PELLKAMIN H 17

Trademark Edilkamin
Trademark Innofire
Trademark Italiana Camini

Description

Mechanically space heater fired by wood pellets

Indirect heating functionality

11 kW

Direct heat output (space heat output)

5,5 kW

CPR harmonised standard

EN 16510-1:2022; EN 16510-2-6:2022

Notified Body

IMQ S.p.A. - NB 0051

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Space heating emissions at nominal heat output(*)				Space heating emissions at minimum heat output(**)			
			PM	OGC	CO	NOx	PM	OGC	CO	NOx
			mg/m ³ at 13%O ₂				mg/m ³ at 13%O ₂			
Wood log, moisture content ≤ 25 %	no	no								
Compressed wood with moisture content < 12 %	yes	no	15	7	235	99	13	1	37	104
Other woody biomass	no	no								
Non-woody biomass	no	no								
Anthracite and dry steam coal	no	no								
Hard coke	no	no								
Low temperature coke	no	no								
Bituminous coal	no	no								
Lignite briquettes	no	no								
Peat briquettes	no	no								
Blended fossil fuel briquettes	no	no								
Other fossil fuel	no	no								
Blended biomass and fossil fuel briquettes	no	no								
Other blend of biomass and solid fuel	no	no								

(*) PM = particulate matter, OGCs = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides

(**) Only required if correction factors F(2) or F(3) are applied.

Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product

η_{th} [%]	87,9
EEI [%]	129
Energy Efficiency Class	A+

Calculations according to the council commission regulation (EU) 2015/1185 and 2015/1186

Characteristics when operating with the preferred fuel

$$EEI = (\eta_{s,om} \cdot BLF) - 10 \% + F(2) + F(3) - F(4) - F(5) \quad BLF = 1,45 \quad \eta_{s,om} = \eta_{th, nom}$$

$$\eta_{s,om} = \eta_{s,om} - 10 \% + F(2) + F(3) - F(4) - F(5)$$

Characteristics when operating with the preferred fuel

Heat output			
Item	Symbol	Value	Unit
Nominal heat output	P_{nom}	16,5	kW
Minimum heat output (indicative)	P_{min}	6,5	kW

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	el_{max}	0,054	kW
At minimum heat output	el_{min}	0,035	kW
in standby mode	el_{sb}	0,002	kW

$$F(4) = CC \cdot \frac{0,2 \cdot el_{max} + 0,8 \cdot el_{min} + 1,3 \cdot el_{sb}}{P_{nom}} \cdot 100[\%]$$

F(4) 0,6 % CC = 2,5

Permanent pilot flame power requirement			
Item	Symbol	Value	Unit
Pilot flame power requirement (if)	P_{pilot}	N.A.	kW

F(5) 0,0 %

$$F(5) = 0,5 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$$

Useful efficiency (NCV as received)			
Item	Symbol	Value	Unit
Useful efficiency at nominal heat output	$\eta_{th,nom}$	90,5	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	88,9	%

Type of heat output/room temperature control (select one)	
single stage heat output, no room temperature control	NO
two or more manual stages, no room temperature control	NO
with mechanic thermostat room temperature control	NO
with electronic room temperature control	NO
with electronic room temperature control plus day timer	NO
with electronic room temperature control plus week timer	YES

F(2) 7,0 %

Other control options (multiple selections possible)	
room temperature control, with presence detection	NO
room temperature control, with open window	NO
with distance control option	YES

F(3) 1,0 %

Contact details	
Name and address of the manufacturer EDILKAMIN S.p.A. Via P. Mascagni n° 7 20045 Lainate (MI) - ITALY	Tel. +39 02 937621 www.edilkamin.com mail@edilkamin.com
Issue date: 22.01.2026	CEO Giorgio Fortini

6.6. ECODESIGN technical data: PELLKAMIN H 22/PELLKAMIN H 22 +



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REA n° 878888
Cod. Fiscale e Partita IVA 00192220192

TECHNICAL DOCUMENTATION FOR LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATION (EU) 2015/1185 AND 2015/1186

Manufacturer
Trademark
Model Identifier
Equivalent models

Edilkamin S.p.A.
Edilkamin
PELLKAMIN H 22
PELLKAMIN H 22+

Trademark Edilkamin
Trademark Innofire
Trademark Italiana Camini

Description
Indirect heating functionality
Direct heat output (space heat output)
CPR harmonised standard
Notified Body

Mechanically space heater fired by wood pellets
19 kW
2,4 kW
EN 16510-1:2022; EN 16510-2-6:2022
ISTITUTO GIORDANO- NB 0407

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Space heating emissions at nominal heat output(*)				Space heating emissions at minimum heat output(**)			
			PM	OGC	CO	NOx	PM	OGC	CO	NOx
			mg/m3 at 13%O2				mg/m3 at 13%O2			
Wood log, moisture content ≤ 25 %	no	no								
Compressed wood with moisture content < 12 %	yes	no	11	1	53	99	14	1	59	109
Other woody biomass	no	no								
Non-woody biomass	no	no								
Anthracite and dry steam coal	no	no								
Hard coke	no	no								
Low temperature coke	no	no								
Bituminous coal	no	no								
Lignite briquettes	no	no								
Peat briquettes	no	no								
Blended fossil fuel briquettes	no	no								
Other fossil fuel	no	no								
Blended biomass and fossil fuel briquettes	no	no								
Other blend of biomass and solid fuel	no	no								

(*) PM = particulate matter, OGCs = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides

(**) Only required if correction factors F(2) or F(3) are applied.

Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product

η_s [%]	86,7
EEl [%]	127
Energy Efficiency Class	A+

Calculations according to the council commission regulation (EU) 2015/1186 and 2015/1185

Characteristics when operating with the preferred fuel

$$EEl = (\eta_{s,om} \cdot BLF) - 10 \% + F(2) + F(3) - F(4) - F(5) \quad BLF = 1,45 \quad \eta_{s,om} = \eta_{s,nom}$$

$$\eta_s = \eta_{s,om} - 10 \% + F(2) + F(3) - F(4) - F(5)$$



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Sede legale:
20123 Milano, via Vincenzo Monti 47
Reg. Imp. di Milano 00192220192
REA n° 878888
Cod. Fiscale e Partita IVA 00192220192

Characteristics when operating with the preferred fuel

Heat output			
Item	Symbol	Value	Unit
Nominal heat output	P_{nom}	21,4	kW
Minimum heat output (indicative)	P_{min}	6,7	kW

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	$e_{l_{max}}$	0,148	kW
At minimum heat output	$e_{l_{min}}$	0,103	kW
In standby mode	$e_{l_{sb}}$	0,002	kW

$$F(4) = CC \cdot \frac{0,2 \cdot e_{l_{max}} + 0,8 \cdot e_{l_{min}} + 1,3 \cdot e_{l_{sb}}}{P_{nom}} \cdot 100[\%]$$

F(4) **1,3 %** CC=2,5

Permanent pilot flame power requirement			
Item	Symbol	Value	Unit
Pilot flame power requirement (if)	P_{pilot}	N.A.	kW

F(5) **0,0 %**

$$F(5) = 0,5 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$$

Useful efficiency (NCV as received)			
Item	Symbol	Value	Unit
Useful efficiency at nominal heat output	$\eta_{th, nom}$	90,0	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th, min}$	94	%

Type of heat output/room temperature control (select one)	
single stage heat output, no room temperature control	NO
two or more manual stages, no room temperature control	NO
with mechanic thermostat room temperature control	NO
with electronic room temperature control	NO
with electronic room temperature control plus day timer	NO
with electronic room temperature control plus week timer	YES

F(2) **7,0 %**

Other control options (multiple selections possible)	
room temperature control, with presence detection	NO
room temperature control, with open window	NO
with distance control option	YES

F(3) **1,0 %**

Contact details

Name and address of the manufacturer
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Issue date: 13.02.2026

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CEO
Giorgio Fortini



7. UNPACKING



Only qualified personnel can unpack the product, in accordance with the safety regulations

INSTALLER

7.1. Notes on unpacking

The materials that compose the packaging are neither toxic nor harmful and as such do not require special disposal processes.

Storage, disposal or possibly recycling is the responsibility of the end user in accordance with the applicable laws. The packaging may be different in different countries for regulatory and transport reasons.



Perform all handling operations with the package upright, using suitable equipment and complying with current safety regulations. Do not overturn the package and take great care with the parts to be assembled.



DO NOT LEAVE PACKAGING WITHIN THE REACH OF CHILDREN. Packaging material (e.g. plastic, sheets of film) can be dangerous for children. There is a risk of suffocation.

7.2. Packaging disposal instructions

	Guidance notes: Comply with the local and national regulations
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DESCRIPTION	INSTRUCTIONS FOR COLLECTION
Wooden pallet	Separate collection
Wooden crate	Wood
Wooden pellet	Check the regulations of the relevant authority
Cardboard box	Separate collection
Cardboard corner	Paper
Appliance bag	Separate collection
Accessory bag	Plastic
Bubble wrap	Check the regulations of the relevant authority
Protective sheet	Check the regulations of the relevant authority
Labels	Check the regulations of the relevant authority
Polystyrene	Separate collection
Straps	Separate collection
Adhesive tape	Plastic
Hardware	Separate collection
Staples for straps	Metal
Fixing bracket	Check the regulations of the relevant authority

7.3. Remove from the pallet



Do not attempt to remove the product from the pallet before removing the screws. Only qualified personnel can remove the product from the pallet, in accordance with the safety regulations. The installer can find the complete instructions on the website.

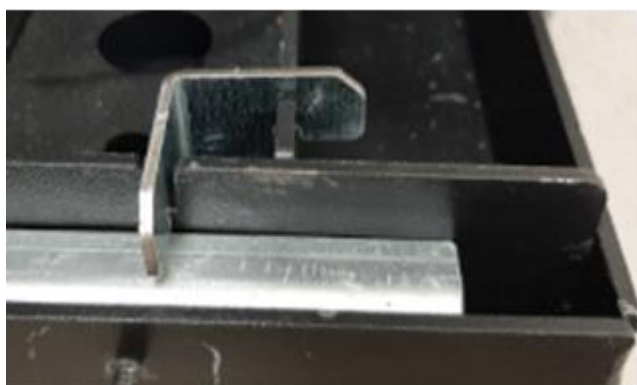


THE DRAWINGS ARE INDICATIVE. THEY ARE USEFUL FOR ASSEMBLY, BUT THEY DO NOT ALWAYS REFER TO THE SPECIFIC MODEL.



Unscrew the screws and remove the brackets

7.3.1. Safety stops



ATTENTION:
MAKE SURE THE TWO SAFETY STOPS ARE POSITIONED CORRECTLY.
RISK OF OVERTURNING

8. INSTALLATION

INSTALLER

	The diameter of the smoke outlet is not the diameter of the chimney system. The chimney system must be sized according to national and local regulations. In particular, (non-exhaustive list) refer to EN 13384, EN 1443, EN 1856, EN 1457 and to all local regulations.
	Avoid the infiltration of condensation water through the chimney flue. If necessary, install an anti-condensation ring - ask your chimney sweep. Damage caused by condensation water is not covered by the warranty.
	In some countries, in special conditions, multiple chimney flue installations are allowed. According to regional regulations, additional safety systems are required when connecting to multiple chimney flues. Your chimney sweep/technician is available for further information.
	The product is not airtight: even if combustion air is taken directly from outside.

8.1. Preliminary remarks on installation

Remember that:

- The installation must be performed by qualified personnel;
- All local and national laws and European Standards must be complied with when installing and using the product. In Italy the reference is the standard UNI 10683;
- In the case of installation in condominiums it is necessary an offer with positive recommendation of the administrator;
- In the case of installation in public places, check and comply with local regulations for these installations.

The product is designed to operate in all weather conditions. In case of special conditions, as strong wind, safety systems may intervene forcing the switch off of the product.

Some indications of a general nature are given below, which do not replace the checking against the local standards and do not bring any liability concerning the installer's work.

8.2. Checking the suitability of the installation room

- The volume of the room must be greater than that indicated in the technical table
- The floor must be able to support the weight of the product and its accessories* (see the note in the paragraph on heat protection)
- Make sure that the product is levelled
- Do not install in rooms where there is a risk of fire or explosion.
- In Italy, check compatibility pursuant to UNI 10683 and UNI 7129 in the presence of gas products.

8.3. Heat protection and safety distances

All the surfaces of the building adjacent to the product must be protected against overheating.

The insulation measures to be taken depend on the type of surfaces present.

The product must be installed in accordance with the following safety conditions:

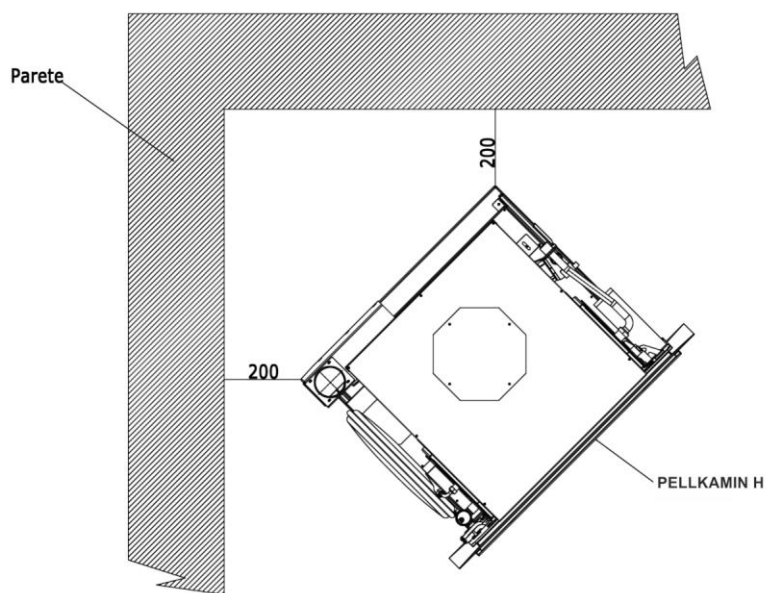
Minimum distance from any combustible materials: see the declaration of performance on the website

In the case of installation with a wall made of wood or other flammable material, the smoke exhaust pipe must be adequately insulated.

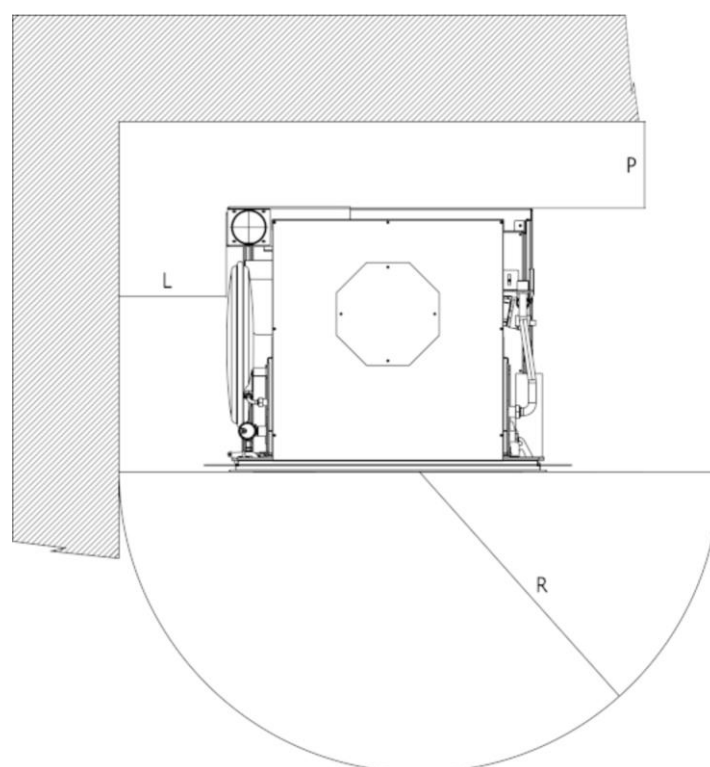
In the case of installation on a floor made of flammable and/or combustible material or with an insufficient load-bearing capacity, it is advisable to place the product on a load distribution plate.

8.4. Minimum safety and maintenance distances

The following figures show the minimum safety distances to be guaranteed.



Corner installation (mm)



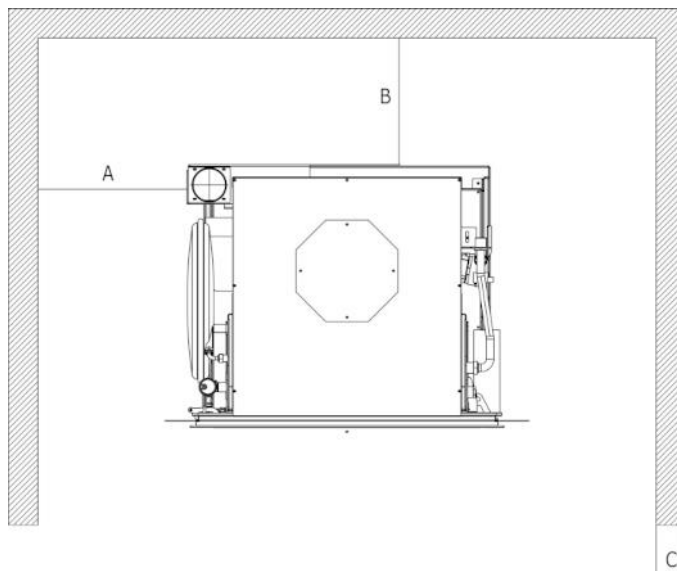
Wall installation (mm)

Safety distances from flammable material:

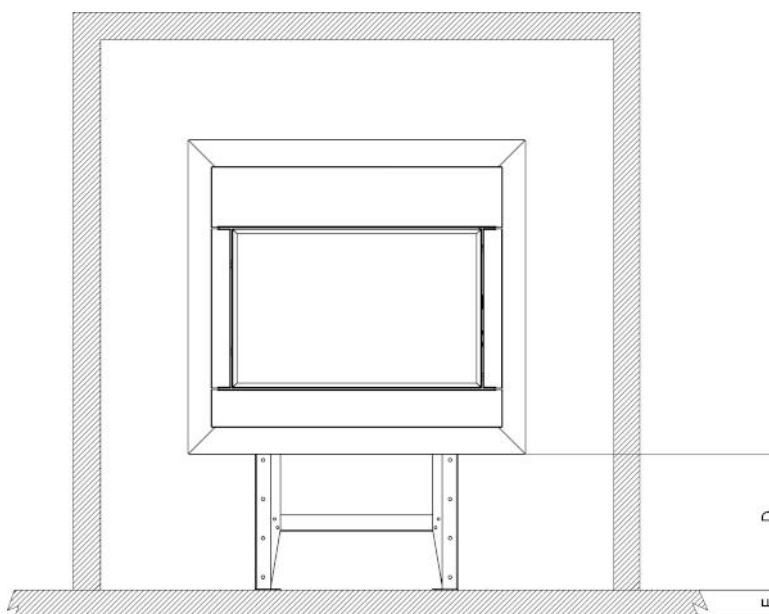
Minimum distance in air from flammable rear wall **P** = 200 mm

Minimum distance in air from flammable side wall **L** = 200 mm

Front distance from flammable material **R** = 1000 mm



Distances from flammable material (mm)



- Distance in the air from the side wall: **A** = 300 mm;
- Distance in the air from the rear wall: **B** = 250 mm;
- Thickness of side/rear wall insulation material: **C** = 80 mm;
- Distance in the air from the floor: **D** = 200 mm;
- Thickness of floor insulation material: **E** = 0 mm;
- Minimum frontal distance in air from flammable material: 100 cm.

8.5. Crossing of combustible materials

Once the position of the product has been established, it is necessary to make the hole for the passage of the flue pipe.

This varies depending on the type of installation (i.e. the diameter of the exhaust pipe) and the type of wall or roof to be crossed.

The insulation must be of mineral origin (rock wool, ceramic fibre) with a nominal density greater than 80 kg/m³.

	Insulation thickness (mm)	Diameter of fume exhaust pipes (mm)	Diameter of fume exhaust pipes (mm)
		Ø 80	Ø 100
		Diameters of the holes to be drilled [mm]	Diameters of the holes to be drilled [mm]
Wooden wall or roof, or in any case flammable, or with flammable parts	100	280	300
Concrete wall or roof	50	180	200
Brick wall or roof	30	140	160

8.6. Chimney system (Smoke duct, chimney flue and chimney pot)

This chapter is written in accordance with European Standards EN 13384, EN 1443, EN 1856, EN 1457.

The installer must take these Standards and any other local regulations into account.

This manual is in no way to be considered as a replacement for current regulations.

The product must be connected to a suitable smoke exhaust system that guarantees the safe and complete evacuation of the smoke produced by combustion.

Before positioning the product, the installer must make sure that the chimney flue is suitable.

8.7. Smoke duct, chimney flue

The smoke duct (duct connecting the fire box smoke outlet to the chimney flue inlet) and the chimney flue must, among other regulatory requirements, in general:

- Receive the smoke coming from only one product (it cannot receive the smoke coming from several products); in some countries there are specific regulations: it is the responsibility of the installer to assess compliance with local regulations.
- Have a predominantly vertical development.
- Not have any counter-sloping sections.
- Have a preferably circular inner cross-section and in any case with a ratio between sides of less than 1.5.
- End on the roof with a suitable chimney pot: it is forbidden to discharge directly from the wall or towards enclosed spaces, even if outdoors.
- Be made of materials with fire reaction class A1 pursuant to UNI EN 13501 or similar national Standard.
- Be suitably certified, with an appropriate chimney plate if metal.
- Maintain the initial section or vary it only immediately above the product outlet and not along the chimney flue

8.8. Smoke duct

In addition to the general requirements applicable to the smoke duct and to the chimney flue, the smoke duct:

- Must not be made of a flexible metal material.
- Must be insulated if it passes through unheated rooms or if it passes outside.

- It must not pass through rooms in which it is forbidden to install combustion heat generators or rooms where there is a risk of fire or rooms that cannot be inspected.
- It must allow the recovery of soot and it must be inspectable.
- In general, it must not have more than 3 bends with a maximum angle of 90°, the assessment of which is the responsibility of the technician in charge of sizing the system.
- In general, any horizontal section can have a maximum (average) length of 3 metres, depending on the draught. However, bear in mind that long sections facilitate the accumulation of dirt and are more difficult to clean; the assessment is the responsibility of the technician in charge of sizing the system.

8.8.1. Maximum usable lengths

Single-wall or double-wall steel pipes with nominal inner diameter 80 mm or 100 mm (for pipes inside the flue max. 150 mm) can be used.

Male-female graft collars must have a minimum length of 50 mm.

The diameter of the pipes depends on the type of system; this product has been designed to accommodate Ø80 mm pipes and Ø 100 mm pipes (check the technical data sheet of the chosen model).

Type of system	with tube Ø 80 mm	with tube Ø 100 mm
Minimum length	1.5 m	2 m
Maximum length (with 3 90° bends)	4.5 m	8 m
For installations located above 1200 m a.s.l.	-	required
Maximum number of curves	3	4
Maximum length of horizontal sections (slope min. 5%)	2 m	2 m

8.9. The chimney flue

In addition to the general requirements applicable to the smoke duct and to the chimney flue, the chimney flue:

- Must only be used to discharge smoke.
- Must be correctly sized to meet smoke evacuation requirements (EN 13384-1 non-exhaustive example)
- Is preferably insulated, made of steel and with a circular inner cross-section. If rectangular, the edges must normally have a radius of not less than 20 mm and a ratio between internal dimensions <1.5.
- Normally have a minimum height of 1.5 metres.
- Maintain a constant cross-section.
- Be waterproof and thermally insulated to ensure draught.
- Preferably have a collection chamber for unburnt material and any condensation.
- If pre-existing, it must be cleaned, to avoid fire hazards.
- As a general guideline, it is advisable to duct the chimney flue if its diameter is greater than 150 mm, the assessment of which is the responsibility of the technician in charge of sizing the system.

8.10. Ducted system

In addition to the general requirements applicable to the smoke duct and to the chimney flue, the ducted system:

- Must operate under negative pressure.
- Must be inspectable.
- Must comply with local regulations.

8.11. The chimney pot

- Must be windproof.
- Must have an inner cross-section equivalent to that of the chimney flue and an outlet smoke passage cross-section equal to at least twice the inner cross-section of the chimney flue.
- In the case of paired chimney flues (which should be at least 2 m apart), the chimney pot that receives the solid fuel product discharge or that of the highest floor must be at least 50 cm above the other.
- Must go beyond the reflux area (in Italy, refer to Standard UNI 10683)
- Must allow for maintenance operations to be performed on the chimney

8.12. External air intake

In general, we suggest two alternative ways of ensuring the flow of essential air for combustion:

- indirect air intake
- direct air intake

8.13. Indirect air intake

Prepare, at floor level, an air intake with a useful surface area (net of any meshes or other protections) of at least 100 cm²

In order to avoid draughts, it is advisable to place the air intake behind the stove or behind a radiator.

It is advisable not to have it in front of the product to avoid draughts.

8.14. Direct air intake

Prepare an air intake with a useful cross-section (net of any meshes or other protection) with a surface area at least equal to the cross-section of the air inlet hole behind the product.

Assess the diameter according to the pressure drops.

Connect the air intake to the hole with a pipe, even a flexible hose.

Increase the diameter of the pipe if the pipe is not smooth: assess the pressure drops.

It is advisable not to exceed 5 m and to have no more than 3 bends, depending on the chimney flue draught.

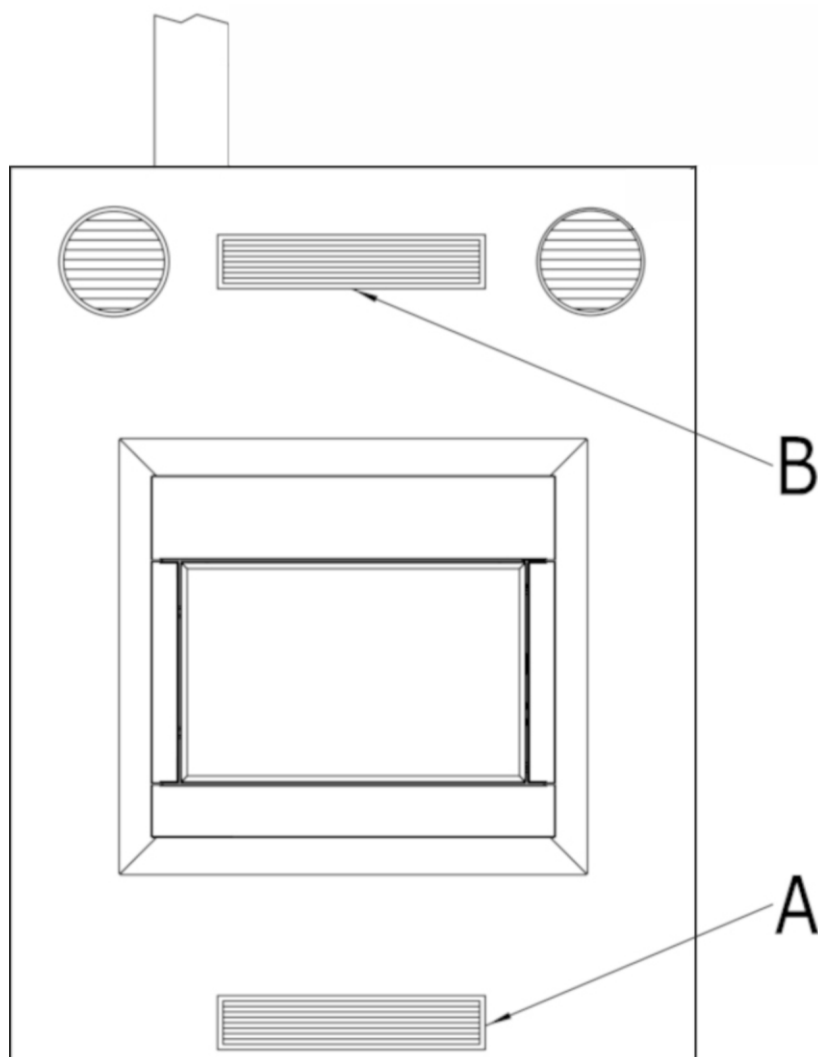
The inflowing air can come from an adjacent room provided that:

- The flow does not encounter any obstacles as it travels through permanent openings communicating with the outside
- The room adjacent to the installation room is never depressurised with respect to outside.
- The adjacent room is not used as a garage or for activities causing a risk of fire, nor is it a bathroom or a bedroom.
- The adjacent room is not a common room of the building

In Italy, Standard UNI 10683 indicates that ventilation is sufficient even if the pressure difference between the external and the internal environment is maintained at 4 Pa or less (Standard UNI EN 13384-1 non-exhaustive example).

The installer who issues the declaration of conformity is responsible for this.

8.14.1. Minimum convective air sections



Convective air inlet/outlet sections:

Minimum convective air inlet section: $A = 500 \text{ cm}^2$;

Minimum convective air outlet section: $B = 500 \text{ cm}^2$

8.14.2. Hood ventilation grilles

The product can be used in two different ways:

- as an insert on an existing coating,
- as a new installation.

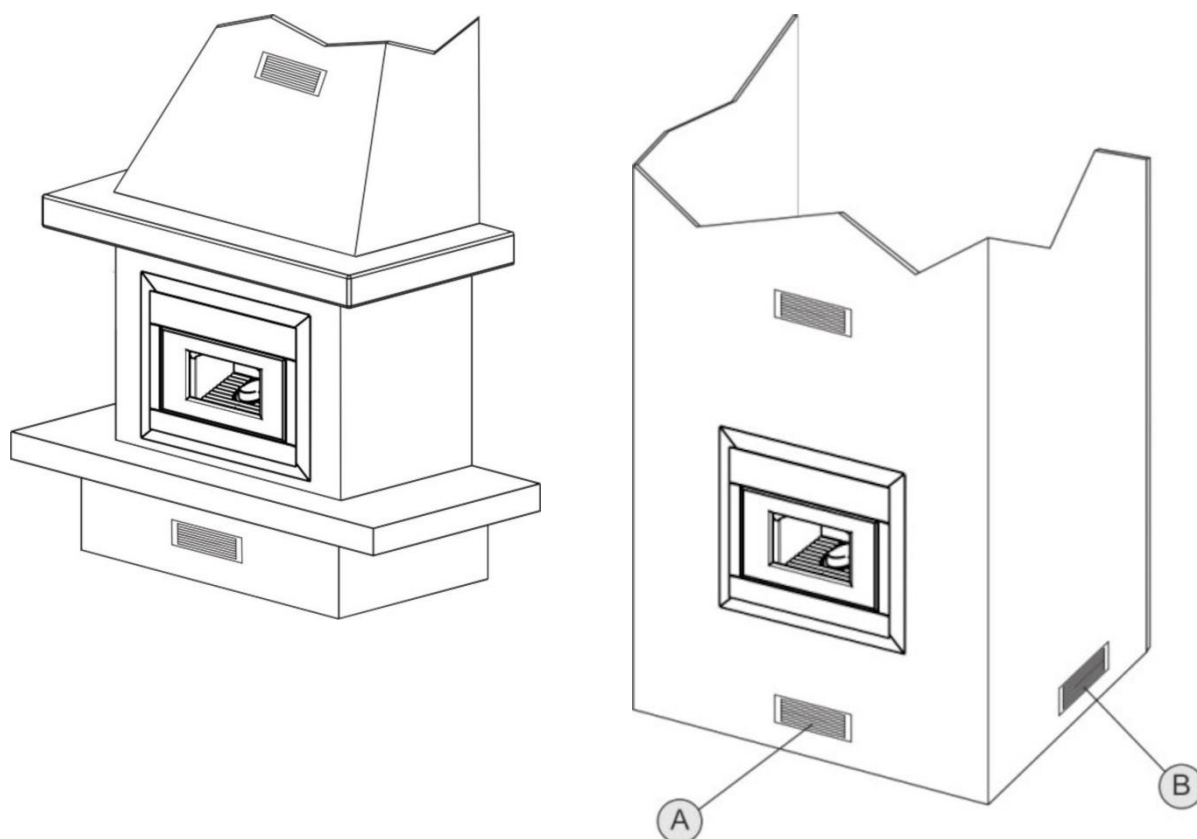
In the event that it is inserted on an existing coating, the ventilation grilles on the coating will be used.

In the event that it is used as a new installation, the manufacturer recommends installing ventilation grilles (convective air) of at least 500 cm², one for delivery to the environment and one for suction from the environment, which can be arranged according to positions A or B.

The company is not liable for any damage to the structure or electrical components caused by failure to comply with this warning.

The structure reaches high temperatures and it is essential to always ensure continuous and efficient ventilation inside the coating.

This practice, in addition to ensuring perfect operation of the product, allows to recover part of the heat of the structure that would be lost if it remained inside the coating.



8.15. Electrical connection

	Place the power socket in an easily accessible place. Voltage variations of more than 10% may compromise operation. The electrical system must be in compliance; check in particular the efficiency of the ground circuit.
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	The inefficiency of the earthing system causes malfunctions for which Edilkamin shall not be held responsible. The power line must have a suitable cross-section for the power of the appliance.
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	AVOID CONTACT BETWEEN THE POWER CABLE AND HOT PARTS OR THE EXHAUST PIPE.
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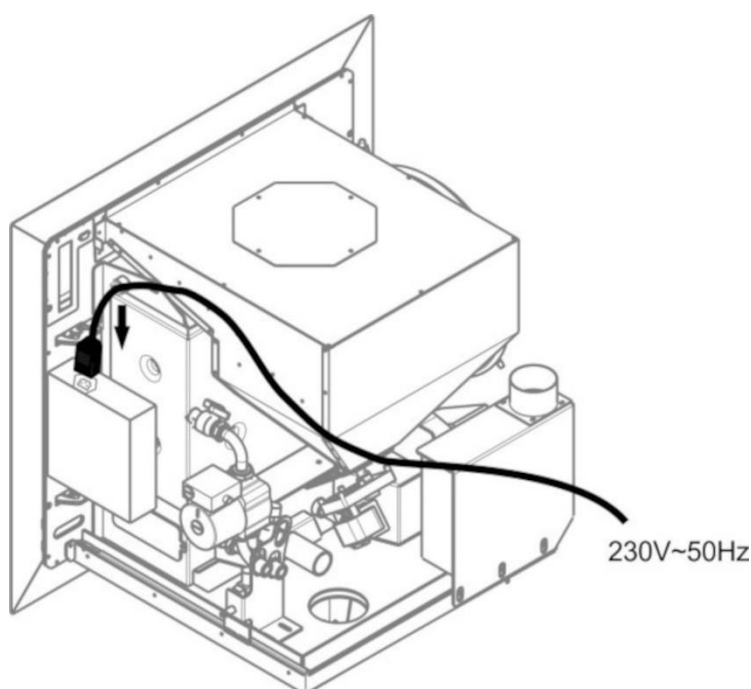
The power cord product that must be plugged into a 230V 50Hz socket.

The connection of the socket at the rear of the product is shown in the figure below.

The absorbed power is indicated in the technical data sheet of the product.

By law, the system must be provided with grounding and a circuit breaker.

Make sure that the power cable, once in its final position, does not come into contact with any hot parts.



Connect the supplied cable to a grounded electrical outlet

	ATTENTION: make sure that the electrical plug remains accessible even after the installation of the appliance
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8.16. Coatings, hood liners and their vents

Only coat the product after:

- Connecting the product to the flue gas outlet and air intake
- Checking the product while hot
- Checking that the product is level.

The installer must follow all the rules of proper installation and take all precautions against overheating and fire,.

In particular:

- when building a possible plinth under the base, a suitable gap must be provided for the passage of recirculation air from the room;
- the possibility of inspecting;
- the wooden parts must be protected with fireproof panels, not placed directly on them but at least 1 cm away from them, to allow an air flow which prevents heat from building up. The inner hood can be made of panels, plasterboard.

It is good to ventilate the inside of the inner hood by exploiting the air flow that enters from below (space between the door and the beam), which by convective motion will come out of the top grille, allowing heat recovery and avoiding excessive overheating.

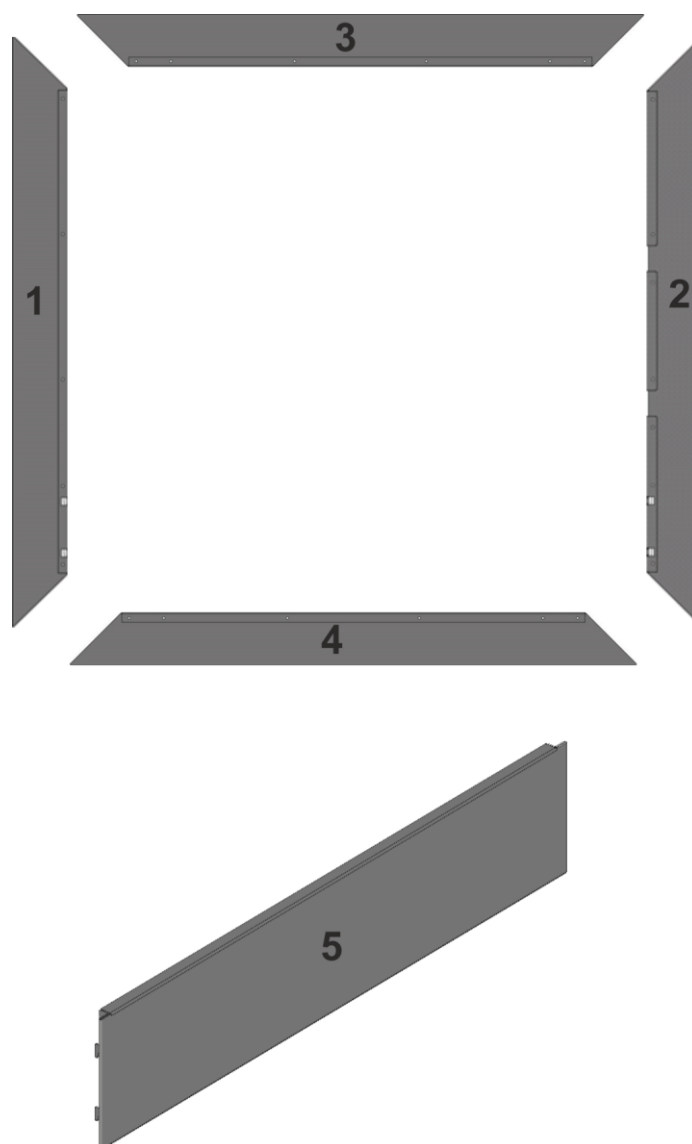
In addition to the above, take into account the regulations in force in each country concerning “insulation, finishes, coatings and safety recommendations”.

9. FITTING THE COVERS

INSTALLER

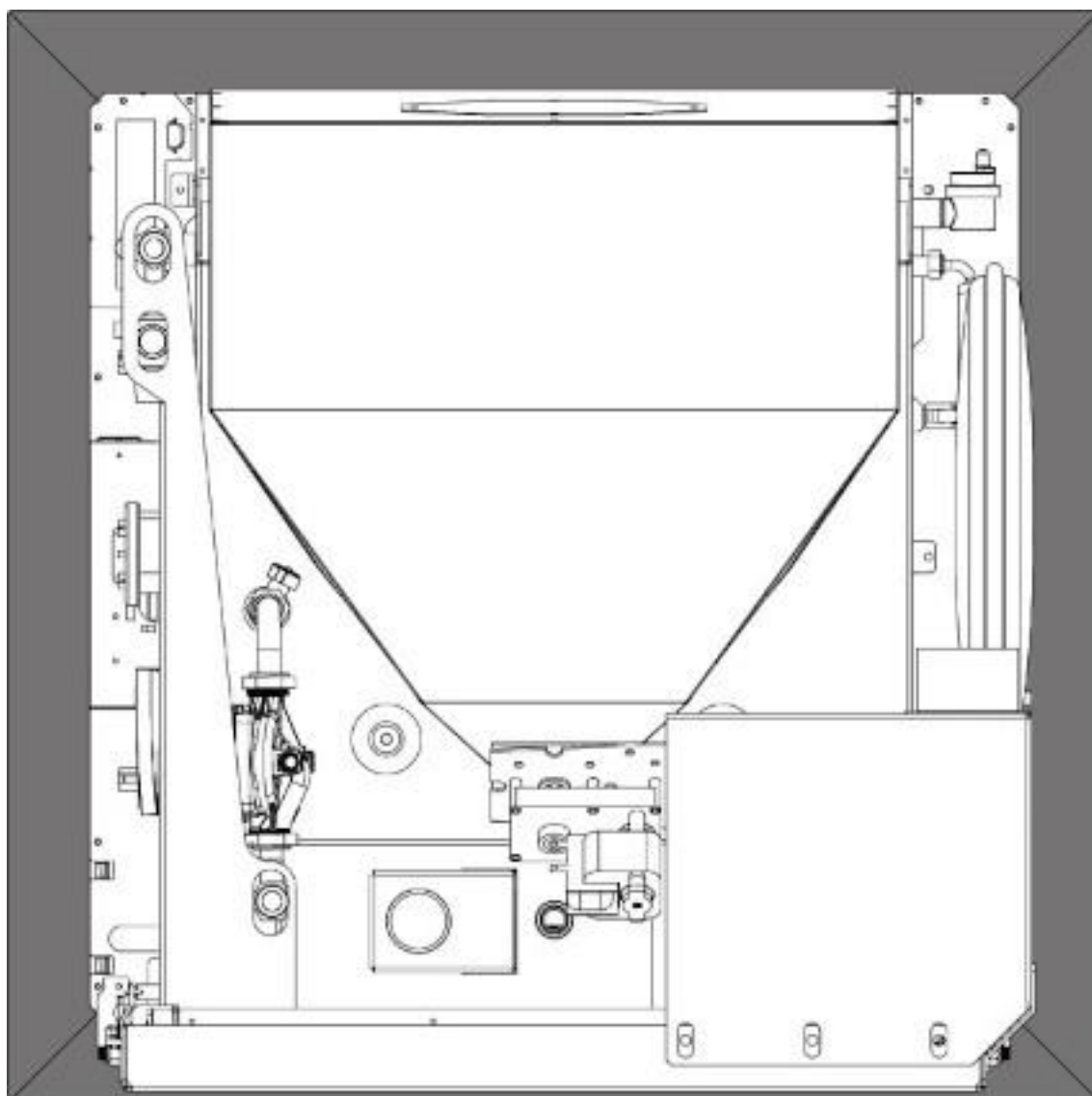
9.1. Finishing frame assembly

Contents



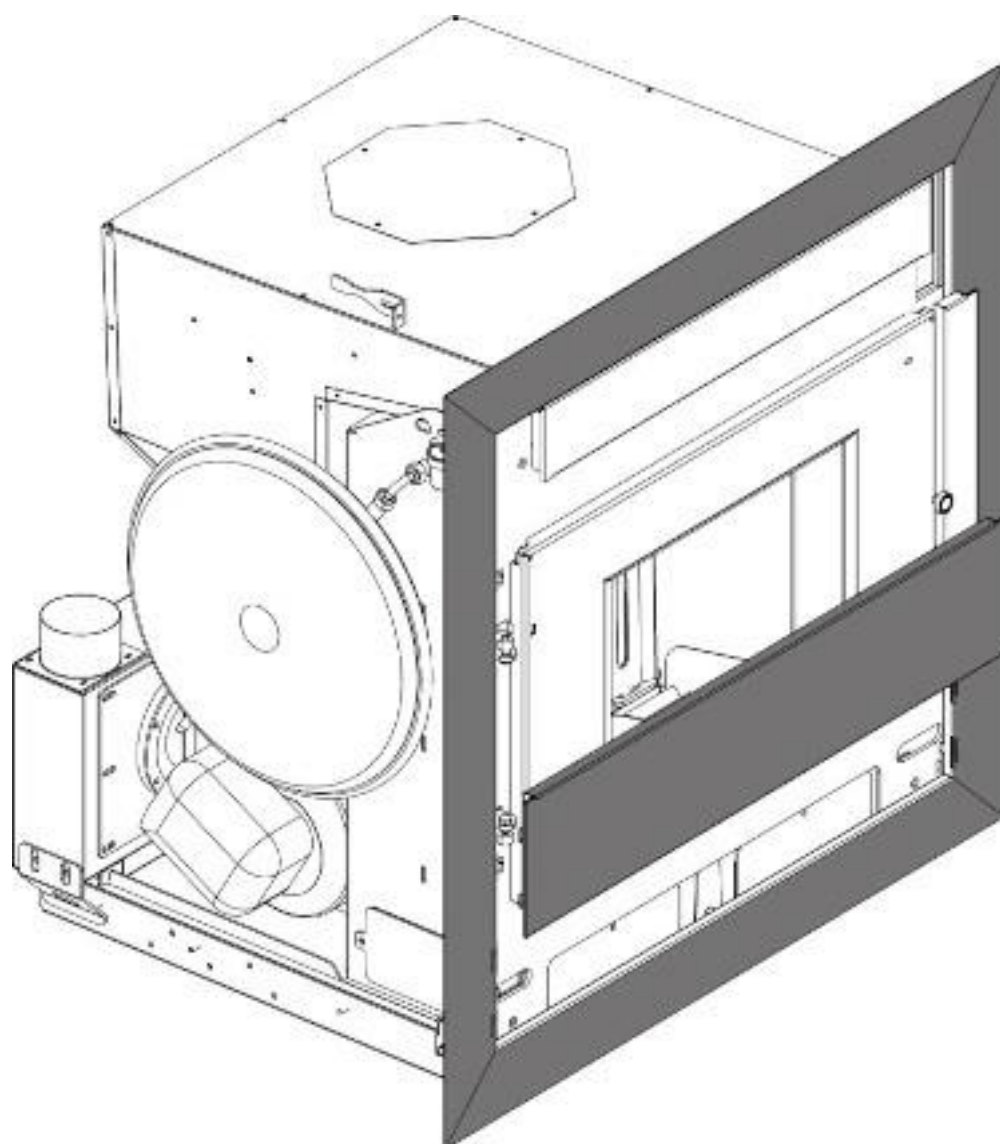
Descrizione	Riferimento in figura	Quantità
Left frame	1	1
Right frame	2	1
Upper frame	3	1
Lower frame	4	1
Bottom bowl	5	1

Screw the 4 frames to the structure using the supplied screws



REAR VIEW OF THE PRODUCT

Hook the lower cap onto the slots of the side frames



9.2. Adjustment of the pellet drawer front

If, after mounting the product finishing frames, the front panel of the pellet drawer is not well aligned, adjustments can be made in order to correctly close the pellet drawer.

Vertical adjustment

By using the nuts of Fig. 1, the distance between the fire door and the pellet loading drawer can be adjusted.

	This adjustment must be made if the drawer touches the finishing frame or fire door during opening or closing
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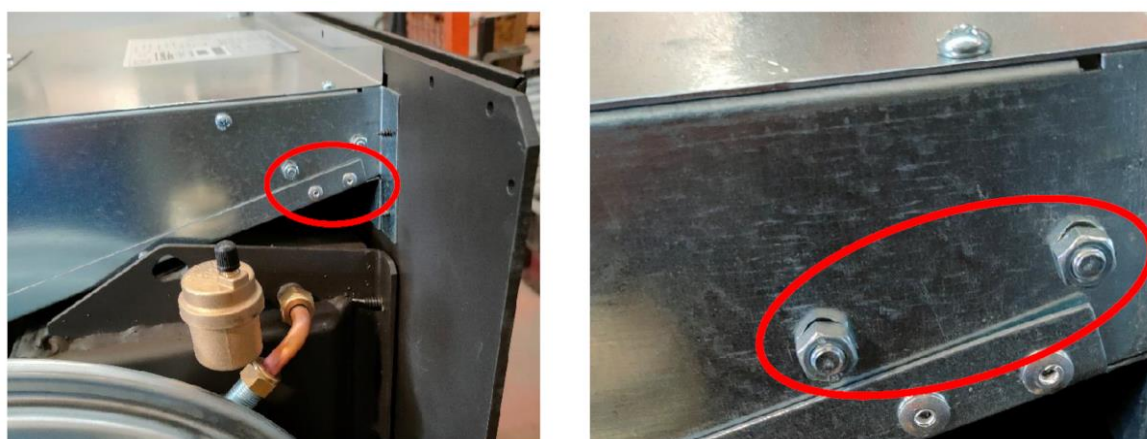


Fig. 1

Front angle adjustment

By using the nuts of Fig. 2, you can adjust the angle of the front of the pellet drawer

	This adjustment must be made if the front of the pellet loading drawer is not well aligned frontally with the fire door
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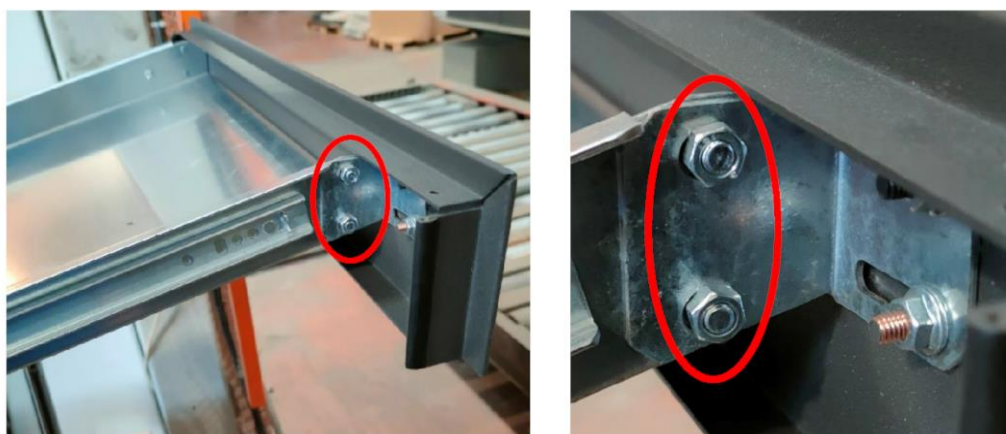


Fig. 2

Side adjustment

By using the nuts of Fig. 3, the front of the pellet loading drawer can be moved horizontally



This adjustment must be made if the front of the pellet loading drawer is not well aligned laterally with the rest of the product front

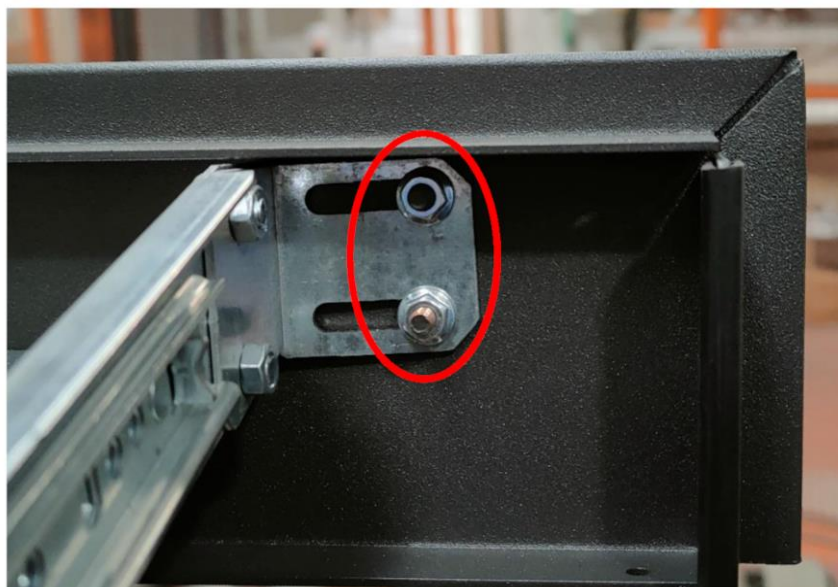
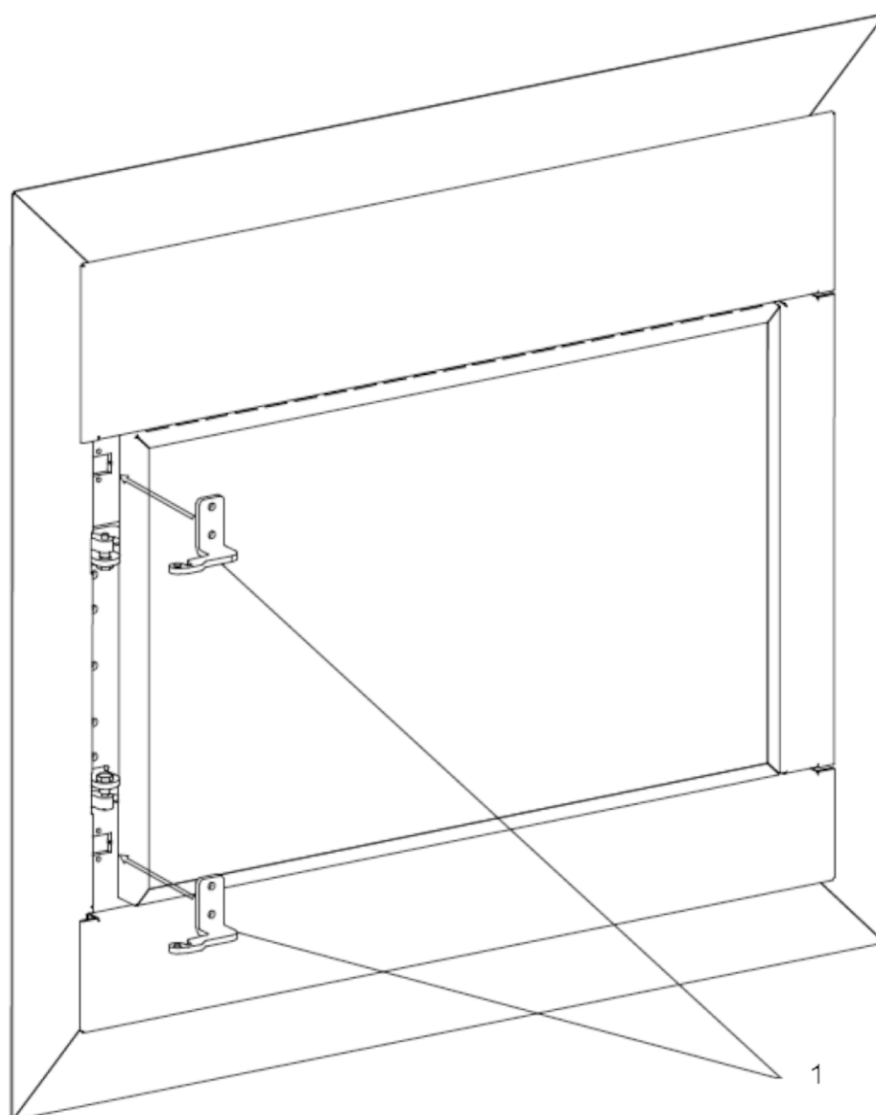


Fig. 3

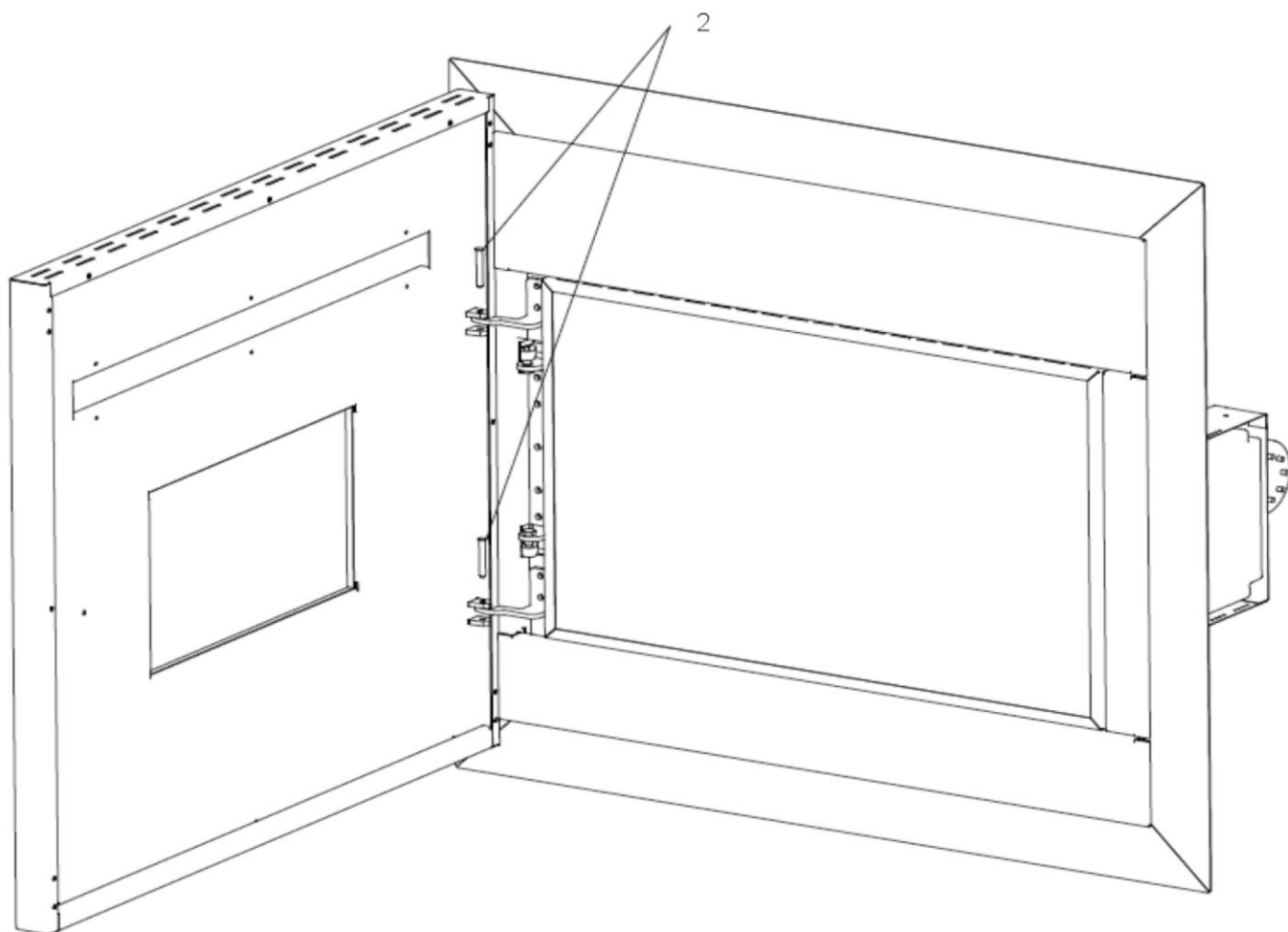
9.3. Assembling magic glass

STEP ONE



Screw the two hinges (1) to the upright

STEP TWO

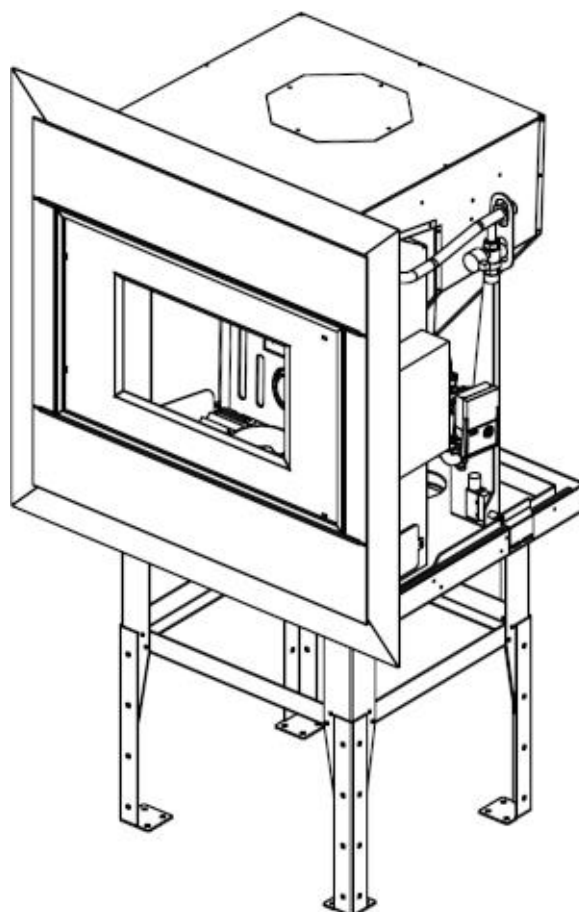


Position the door near the hinges by inserting the two pins (2) supplied

9.4. Installation and assembly

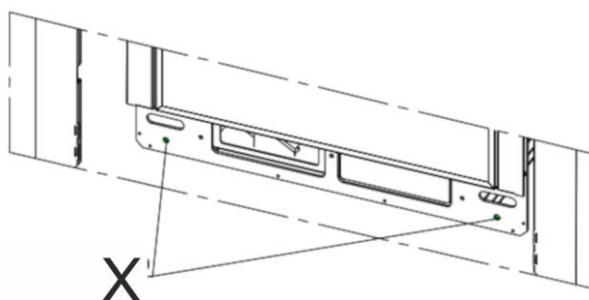
The product can be installed at the desired height, using the appropriate adjustable structure (optional), or by building non-flammable supports and supports capable of supporting the weight of the product.

The company declines all responsibility for any damage to property and persons in the event that the above warnings are not complied with

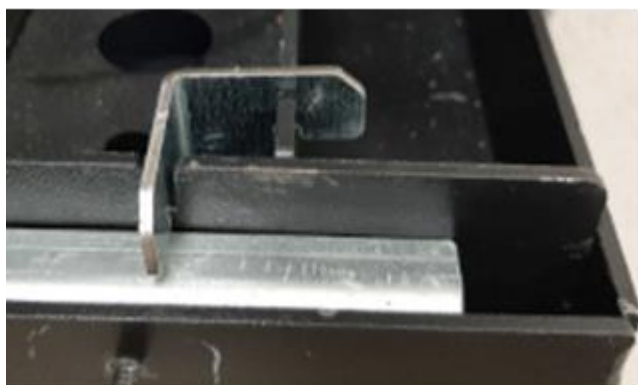


If you want to install the product on a different structure or on a wall base, operate as follows:

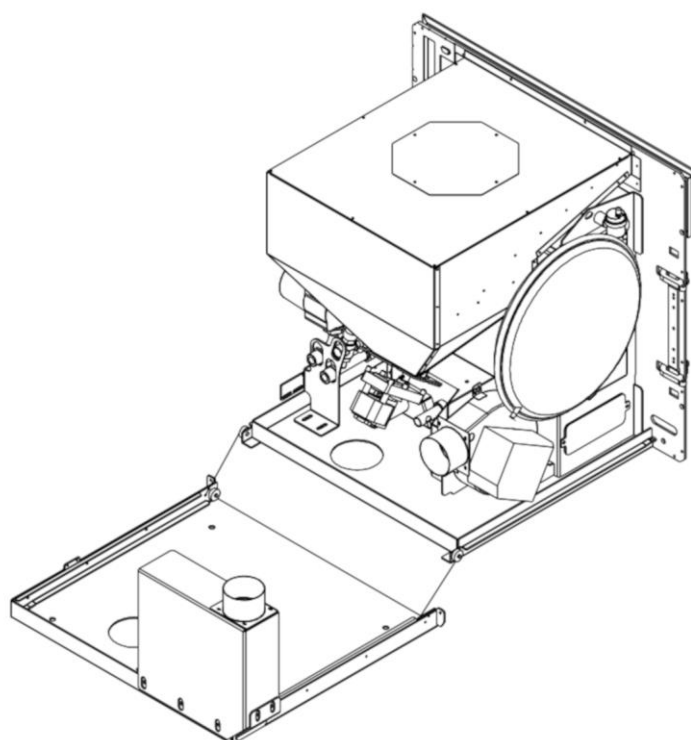
	For the 22/22+ version, maintain a minimum floor height of 40cm; otherwise, the cleaning springs at the bottom of the product cannot be removed
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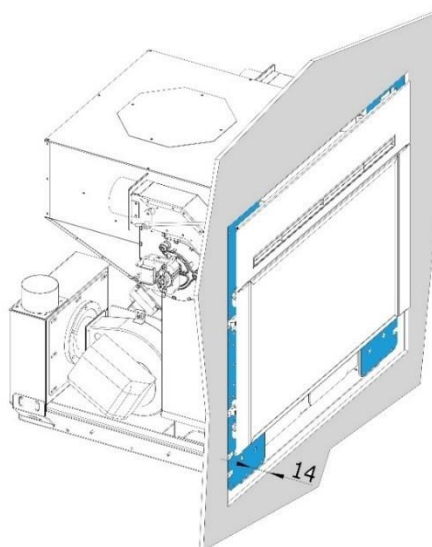
Remove the two front set screws (X)



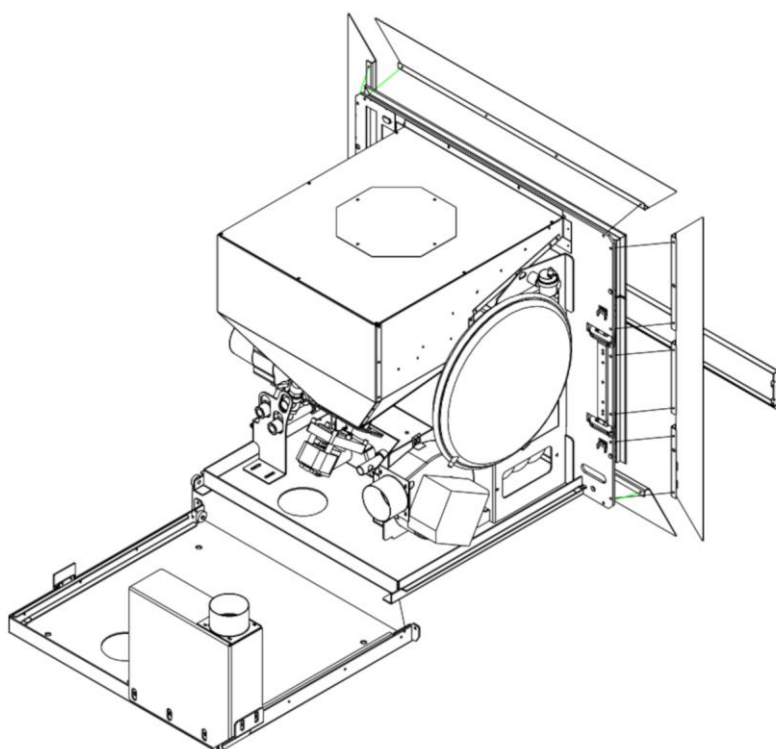
Remove the two safety stops



Remove the base from the product by sliding it on the guides until it is completely extracted



Place the base on the structure or on the wall support that has been prepared, leaving 14 mm from the wall front. Secure the base by means of 5 wall plugs or screws



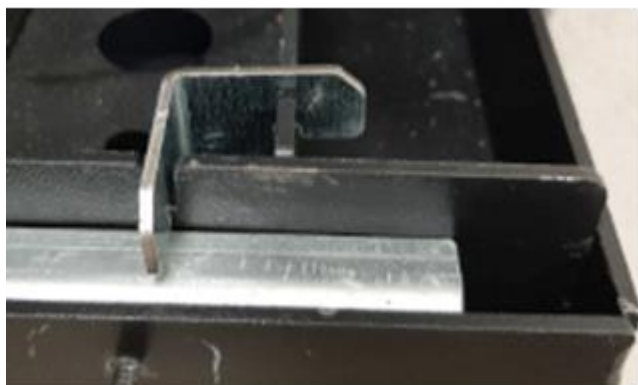
Before repositioning the product on the guides, make all the fume, hydraulic and electrical connections that follow.

Close the product taking care that it has reached the end of the stroke.

The presence of the position sensor does not allow the ignition in case the installation is not correct.

Replace the set screws

Place the two safety stops



ATTENTION:

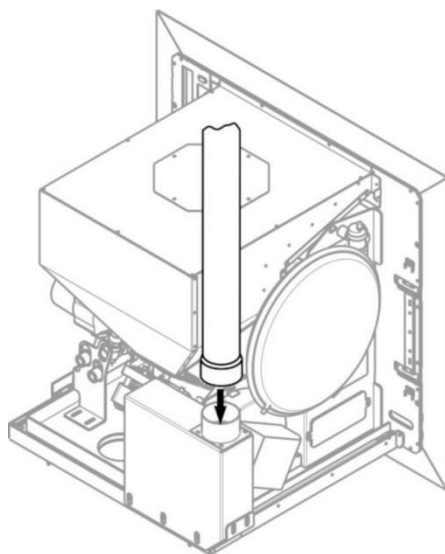
**MAKE SURE THE TWO SAFETY STOPS ARE POSITIONED CORRECTLY.
RISK OF OVERTURNING**

9.5. Connection of the flue gas duct

When making the hole for the passage of the flue pipe, it is necessary to take into account the possible presence of flammable materials.

If the hole must pass through a wall made of wood or in any case of thermolabile material, the installer must use a wall fitting and adequately insulate the product pipe that passes through it using suitable insulating materials (thick. 1.3 - 5 cm with min thermal conductivity of 0.07 W/m°K).

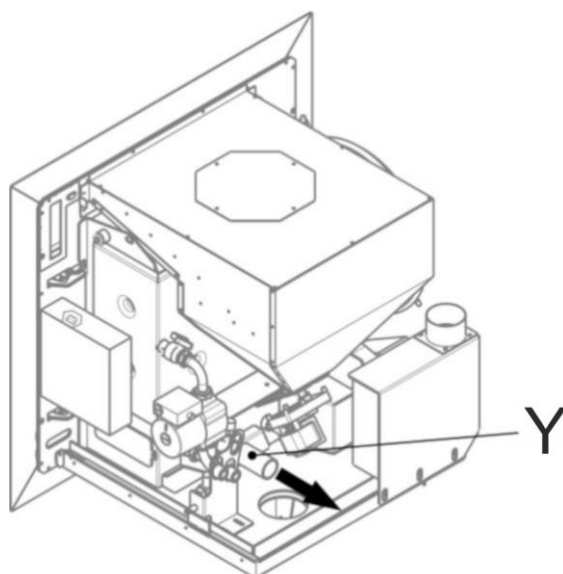
The same minimum distance must be respected even if the exhaust pipe must travel vertical or horizontal sections always near the heatable wall. For all the information regarding the various cases of installation of the smoke duct, please refer to the chapter.



9.6. Primary air (Y)

To carry out combustion, the product, during its operation, draws a certain amount of air from the environment, this air must be integrated through an air intake outside the room.

In this product, the combustion air intake takes place directly, therefore it is necessary to provide grilles in the box surrounding the product, but if the user wants to withdraw the air from the outside, he must connect a pipe and connect it directly to the outside.



10. HYDRAULIC INSTALLATION

INSTALLER

10.1. General rules for hydraulic installation

The hydraulic connection depends on the type of system.

However, there are some “common rules”:

The hydraulic system must work with pressure.

The system must work with a pressure between 1 and 1.5-2 bar when hot on a closed tank circuit.

DO NOT install the product on a primary system with an open expansion tank.

The presence of a buffer tank (inertial storage tank) is advisable but not mandatory. Its presence has the advantage of freeing the product from the “sudden” demands of the system and allowing integration with other heat sources. It reduces consumption and increases the efficiency of the system. Edilkamin recommends a 15-20 l/kW buffer tank.

The return temperature of the water to the product must be at least 50-55° C to avoid condensation phenomena.

For the heating of any low temperature radiant panels, a buffer tank (inertial storage tank) must be installed as indicated by the manufacturer of the radiant panels themselves.

The material used in the circuit must be suitable to withstand any overtemperatures.

The installer must decide whether conditioning products are required based on the type of water and system. In Italy, refer to Standard UNI 8065 (water treatment in heating systems for civil use).

	Direct connection to the radiators, due to the small diameter of their pipes, prevents regular operation
	The hydraulic system must be designed in accordance with local and national regulations. Installation must be carried out by qualified personnel in accordance with local and national regulations
	NEVER OPERATE THE PRODUCT WITHOUT WATER INSIDE. There is a risk of irreversible damage to the product
	The safety valve outlet must be connected to a collection funnel to channel any discharge in case of intervention.
	Neither the manufacturer nor the retailer is responsible for any flooding caused by incorrect installations.
	The presence of the expansion tank in the product does not guarantee adequate protection against the thermal expansion suffered by the water in the entire system. The design must take into account the calculation of the required expansion tank volume

10.2. Possible washing of the hydraulic circuit

Install suitable shut-off valves on the pipes of the heating system.

To preserve the heating system from harmful corrosion, scaling or deposits, it is important, before installing the appliance, to wash the system in accordance with Standard UNI 8065, using approved products. It is important to check the concentration of the inhibitor after each change made to the system and each time a maintenance check is performed, as indicated by the manufacturers (special tests are available from retailers).

Failure to wash the heating system and to add a suitable inhibitor will invalidate the warranty of the appliance and of other accessories, such as the pump and valves.

10.3. Venting

During operation, venting is automatic.

	Gurgling During the first start-ups, any gurgling indicates air in the system
---	--

10.4. Water connection

The connection of this appliance to the hydraulic system must be made **EXCLUSIVELY** by qualified personnel, capable of performing the installation operations in a perfectly workmanlike manner, in accordance with the regulations in force in the country of installation.

If the installation of this appliance involves interaction with another pre-existing system complete with another heating appliance (gas boiler, natural gas boiler, oil-fired boiler, etc.), it is strongly recommended to consult qualified personnel who can take responsibility for the system's compliance with current regulations.

The Company declines all liability in the event of damage to property or people, or for any malfunctions or incorrect operation, if the above warnings are not complied with.

	WARNING: For the connection of the delivery, return, make-up water and drains, install flexible hoses at least 70 cm long and shut-off valves, in order to isolate the appliance from the water system if it is necessary to move or reposition it for routine and/or extraordinary maintenance.
---	--

	WARNING: Connect the appliance's thermal safety discharge outlet to a suitable drain funnel, without shut-off valves. In the event of activation of the thermal safety discharge valve, the water must be free to drain without causing damage to people or property.
---	---

	WARNING: Check the correct opening of the ball valves
---	---

When this product is operating at full capacity, it produces hot water at a temperature necessarily below boiling point, so it is necessary for the heating system to be designed in accordance with the characteristics of the appliance.

During installation and operation, keep in mind that the minimum power supplied by the product must be disposed of.

Make sure that the heating hydraulic system is equipped with an additional suitably sized closed expansion vessel.

For the installation of an additional expansion vessel, keep in mind that 1 litre of vessel volume usually compensates 10 litres of system volume, and that at least 1 litre is always allocated to the water contained within the appliance.

The expansion vessel installed inside the product is pre-charged to the pressure indicated on the rating plate; adjust the pre-charge pressure of all expansion vessels to match the operating pressure of the heating system.



It is recommended to install a 1" anti-condensation valve with opening at 55°C and water softening systems.

Filling the system

Before making the hydraulic connections, thoroughly flush the heating system (pipes, heat emitters, etc.) using suitable pickling or descaling agents capable of removing any residues that could compromise the correct operation of the appliance.

The hydraulic connections must be made logically and correctly, using the connections provided on the appliance.

The discharge of the safety valve must be connected to a discharge funnel.

Otherwise, if the safety discharge valve causes flooding in the room, the Manufacturer of this appliance shall not be held liable for any damage.

It is recommended to fill the system at a pressure of 1.0 - 1.2 bar (the pressure is indicated on the remote control with the symbol b).

The product can still operate from 0.6 to 2.5 bar before going into alarm.

In case of installation in rooms where the temperature can fall below 0°C, it is necessary to insert a special antifreeze device in the system as there is no automatic antifreeze system.

Indications for water treatment

To avoid the need for frequent cleaning of the heating system, it is advisable **to install a magnetic dirt separator and a deaerator.**

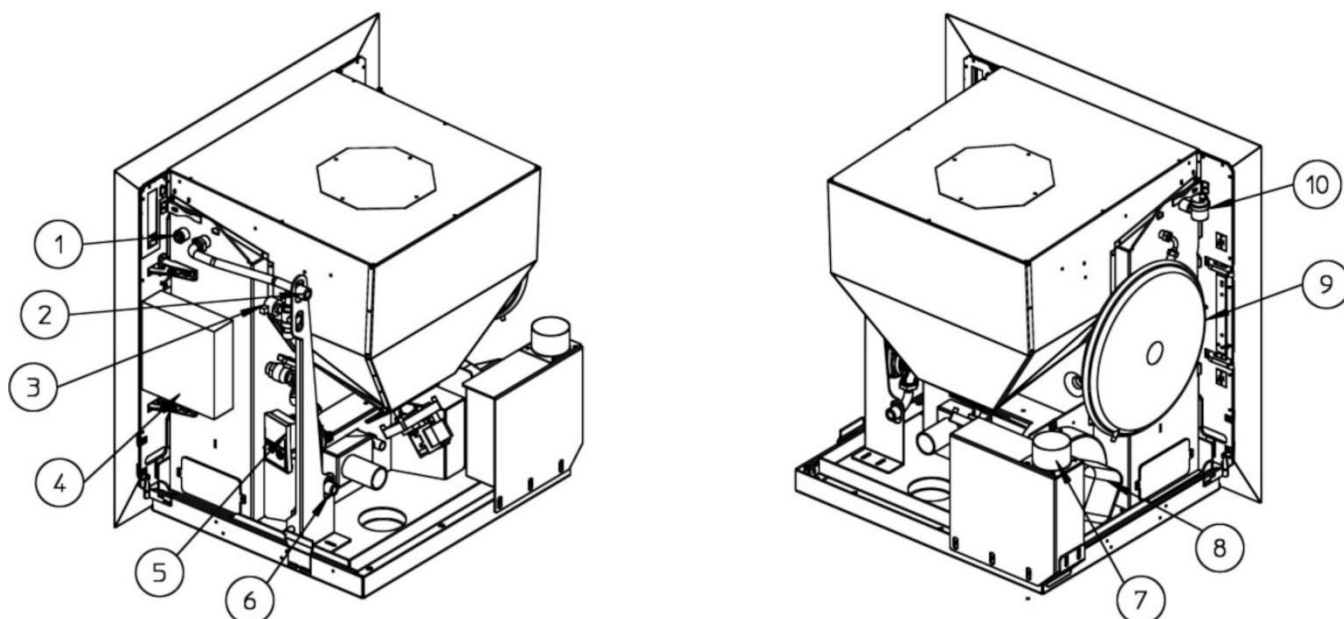
These filters facilitate routine maintenance, extend the appliance's service life, facilitate the removal of impurities and increase the overall efficiency of the system.

The magnetic dirt separator acts as a filter for the heating system by eliminating sludge and ferrous or sandy residues that circulate in the pipes; if not removed, they create surfaces that prevent correct heat transfer, resulting in increased pellet consumption and possible malfunction of the appliance.



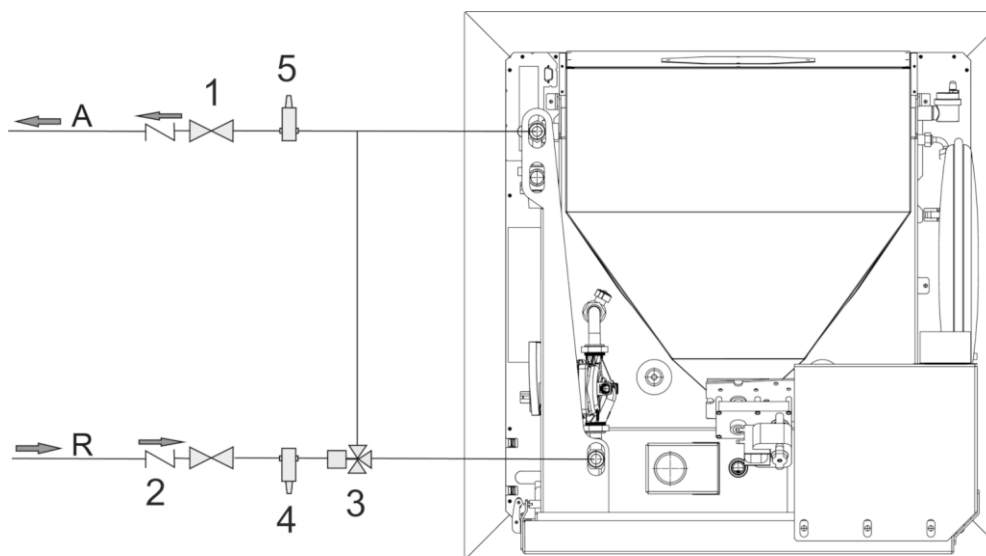
WARNING: In case of Water with pH >8 do not use aluminium gaskets

10.5. Product diagram



1	Probe pocket
2	System delivery
3	Safety valve
4	Electronic board
5	Circulator
6	System return
7	Smoke outlet
8	Smoke extractor
9	Expansion vessel
10	Automatic air vent

10.6. Heating only indicative hydraulic diagram



1	Gate valve
2	Non-return valve
3	Mixing valve 55°C
4	Magnetic debris collector
5	Deaerator

10.7. External thermostat installation

The operation can be regulated by any external room thermostat connected to the electronic board with a clean contact (see wiring diagram).

The thermostat is connected using a 2x0.5 mm² cable.

The contact to be used is of the NO type (Normally open), if there is no clean contact, interpose a relay between the thermostat and the machine terminal board.

The connection of unsuitable thermostats may cause irreparable damage to the electronic control board. This operation must be performed by specialised personnel.

The external thermostat works in parallel with the product's ambient probe and the one in the remote control.

If you want to use the external thermostat, set the ambient temperature value on the remote control to minimum (7°C), at this point the product is controlled by the external thermostat.

During the working phase, when the external thermostat is closed, the product works at the set power level and a virtual led is activated on the remote control at the top left.

When the contact of the external thermostat opens, the product is brought to the minimum power level and the word "modulate" appears on the remote control; this modulation state ends only when the external thermostat closes again.

In this status, the product returns to the power set by the user, the word "modulate" disappears on the remote control and the indication of the set power level returns

11. FUEL: WOOD PELLETS

USER/INSTALLER

Use class A1 wood pellets in accordance with Standard UNI EN ISO 17225-2 or similar local regulations that provide for the following characteristics.

diameter 6 mm;

length 3-4 cm

moisture <10 %

	For the protection of the environment and for safety reasons, DO NOT burn, among other materials: plastic, painted wood, coal, bark waste. The use of other fuels may damage the product. DO NOT USE THE PRODUCT AS AN INCINERATOR.
---	---

11.1. Pellet storage

Pellets are hygroscopic, i.e. they absorb moisture.

It is therefore necessary to store the pellets in a dry place, in their original bag, away from moisture.

Pellets should normally be at least 1.5 metres away from visible fires.

Large quantities of pellets must be stored in ventilated places, in accordance with local regulations.

12. INSTRUCTIONS FOR USE

USER/INSTALLER

	The use of fuel other than the recommended pellets may cause damage to the product
	When the product is hot, do not place the pellet bag on the top. Use the special glove when loading the product while it is on and therefore hot.
	Be careful not to touch the smoke exhaust pipe if hot.
	Expansion Like all products, it heats up and cools down during the various phases. This results in normal expansion. This expansion may result in slight noises which are not a cause for complaint.
	Smells During the first start-ups, you may smell paint, but the smell will disappear in a short time. Start the product in a well-ventilated room the first times it is used.
	The product can be operated only after assembling the covers. Power up the product only after completing its assembly and the covers have been fitted. Otherwise there is a risk of accessible live parts.

12.1. Training before use



The technician is responsible for teaching the customer how to use and perform maintenance on the product.

In particular, to use it in the best way possible, we suggest discussing the following topics with the technician:

- Operation
- Fuel
- Ignition
- What to do in the event of problems
- Use suitable for installation conditions



Do not make changes to the installation conditions on your own initiative (including air intakes)

12.2. Steps for the first start-up

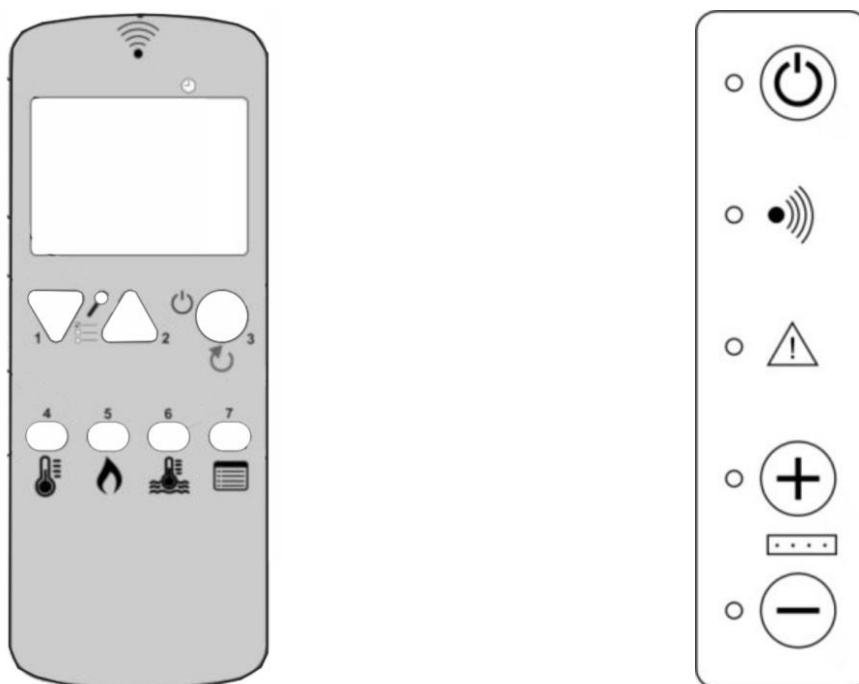
- Be sure to have read and understood the contents of this manual.
- Remove all flammable components from the product (manuals, labels, etc.). In particular, remove any labels from the glass.
- Make sure that the technician has performed the first start-up, filling the pellet hopper for the first time too.

12.3. Description of the remote control

The remote control displays information on the operating status of the product.

By accessing the menu, various display modes can be viewed and the available settings can be adjusted according to the access level.

Depending on the operating mode, the views can take on different meanings depending on the position on the remote control



Functions of the remote control keys

SYMBOL		FUNCTIONS	SYMBOL/LED	MEANING
	TASTO 1 POWER REDUCTION	Reduction of the set power value or the reference value you are setting		Weekly Chrono Prog. activation
	TASTO 2 POWER INCREASE	Increase of the set power value or the reference value you are setting		Automatic activation
	TASTO 3 ON-OFF	Manual switching on and off of the appliance Exit the programming status Exit from menus		WiFi connection state

		Exit from the lock or alarm status (with transition to OFF state)		
4 	TASTO 4 TEMPERATURE ADJUSTMENT	Switching to room temperature setting Scroll down the menus In the setting mode of the technical parameters scrolls in the submenu		Stand-by activation
5 	TASTO 5 POWER ADJUSTMENT	Switching to power setting Scroll to the top of menus In the setting mode of the technical parameters scrolls in the submenu		Relax activation
6 	TASTO 6 ADJUSTMENT TEMP. WATER	Water temperature setting		
7 	TASTO 7 SELECTING SETTINGS	Switching to menu functions Access to programmable thermostat and clock programming Access to technical parameter programming		

With regard to the LEDs on the product console, the meaning is as follows:

SYMBOL/ LED		MEANING	SYMBOL/ LED	MEANING
	Led Power	Report switch on		Weekly Chrono Prog. activation
	Alarm	Indicates the alarm status of the product		Automatic activation
	Power	Pressing the corresponding key brings the product to power 5		WiFi connection state
	Power	Pressing the corresponding key brings the product to power 2		Stand-by activation

12.3.1. Battery replacement

Remove the rear shell of the remote control

Replace the batteries taking care not to reverse the polarity

The batteries must be of the AAA(LR03) 1.5V type

12.3.2. Transmission unit setting



In case of multiple products, installed in the same environment, which interfere

The product must be connected to the mains

- Simultaneously press the 1-2 keys (up arrow and down arrow) for about 3-4 seconds until the word CHOOSE UNIT APPEARS
- Select the transmission unit (1-2-3...) with the buttons 1-2. Remote controls are supplied with transmission unit set to 0 (default unit)
- Turn the product off and on again.
- To store, press and hold key 3 (on-off) for about 3 seconds, an acoustic BEEP will signal the storage and connection.
- The remote control is ready for normal operation.

12.3.3. Backlight setting

Press keys P1-P7 together to select the duration of the backlight.

By default, the backlight is Off

12.4. Initial start-up

Before commissioning the product, it is necessary to have the "FIRST START-UP" and calibration carried out by a specialised technician; it is recommended to contact personnel from the network of authorised Technical Service Centres.

The Company declines all liability for malfunctions resulting from incorrect installation, failure to carry out or incorrect initial start-up, or improper use.

The initial start-up inspection is carried out for a fee by technicians from the network of authorised Technical Service Centres.

Make sure that the electrical connections have been made in a workmanlike manner.

Before switching on the appliance, also check that the burn pot is correctly positioned in its seat in the combustion chamber.

During the first start-ups, odours may be released due to the evaporation of paints or greases.

To solve the problem, simply ventilate the room and avoid prolonged exposure, as the vapours emitted can be harmful to people or animals; therefore, children should not remain in the room during this initial phase.

When the hopper is filled for the first time, the auger must be filled, for a certain period, and therefore during this time the pellet is not yet distributed into the combustion chamber.

To overcome this, the "initial loading" command can be used, available in menu 7 of the control panel (see further details below).

12.5. Pellet charge

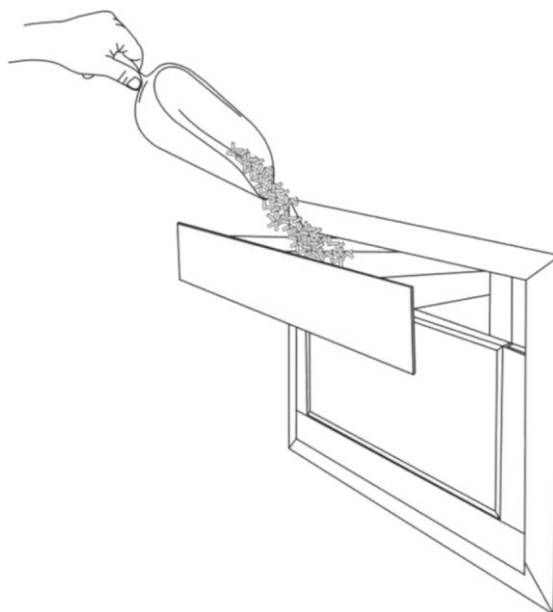
Pellet charging should be done through the pull-out front drawer which is above the fire port.

To facilitate loading, operate with this sequence:

- Open the drawer until the end of the stroke, the slide guides block its movement at maximum extraction.

In case the product is hot, use an oven mitt

- Pour the pellet into the drawer little by little, using a scoop (not supplied).
- Move the drawer back and forth to slide the pellet to the bottom of the tank.



12.6. Ignition and normal operation

Before proceeding with the ignition of the appliance:

- **Check that the fire box door is properly closed;**
- Make sure that the pellet hopper is full or contains a sufficient quantity of pellets to operate the appliance for the desired period.
- **Make sure that the burn pot is clean**, free of ash, combustion residues and unburnt pellets; if necessary, remove the burn pot, clean it thoroughly and carefully place it back in its seat.
- In case of programmed ignitions with a programmable thermostat, after the last shutdown, make sure that the burn pot is in the conditions indicated.

When the appliance is connected to the electrical system but is not in operating mode, the word "OFF" will appear on the remote control.

12.6.1. Starting

To start the appliance, press and hold the start button (4) for about 2 seconds

If it starts during the final cleaning phase, the message "WAITING TO COOL" might appear. In this case, wait a few minutes before attempting ignition again.

First phase. Preparation

The remote control will show the message "IGNITING". During this phase, lasting about one minute, the pellet ignition glow plug is activated and forced ventilation of the combustion chamber begins with the activation of the smoke extractor fan.

Second phase. Switch on

After the preparation phase, the message "PELLET LOAD" appears on the remote control and the ignition phase begins.

This second phase is divided into two parts: pre-loading and actual ignition.

First of all, the pellet auger is activated (the Auger ON LED lights up) for a variable time interval depending on the model, and the pellets begin to fall into the burn pot.

Remember that at the beginning of this phase the burn pot must be perfectly clean

When the pre-loading ends, the pellet auger stops for a variable time depending on the model (from two to three minutes).

After this waiting period, the pellet auger begins operating at regular intervals, and the pellets consequently resume falling into the burn pot, while both the glow plug and the smoke extractor fan remain activated.

As soon as the pellets cover the glow plug hole, a reddening of the burn pot will first be visible, followed by the ignition of a small flame.

If the pellets continue to fill the burn pot without ignition, the ignition process can be interrupted manually without waiting for the "AL 5 FAILED IGNITION" alarm to be activated.

This second phase ends when the combustion process is successfully detected.

If combustion is not detected within a certain time, the failed alarm is activated (message "AL 5 FAILED IGNITION").

Third phase. Stabilisation

Once combustion is detected, the third phase begins and the message "FIRE PRESENT" appears on the remote control.

Pellet feed is reduced and ventilation is increased in order to allow the flame to stabilise, and any excess pellets accumulated in the burn pot during the ignition phase are removed.

This phase lasts about 5 minutes.

When the stabilisation phase is finished ("FIRE PRESENT"), the appliance switches to normal operation

12.6.2. Failed ignition

As mentioned above, if ignition is not detected, a failed ignition alarm is activated, the message **"AL 5 FAILED IGNITION"** appears on the remote control and an audible signal is emitted at regular intervals (if the buzzer function in Menu 6 is active).

To deactivate the alarm condition, press and hold (for about 2 seconds) the ON-OFF key (3).

The audible alarm stops and the appliance first returns to the "FINAL CLEANING" state and then to the "OFF" state. Before attempting a new ignition cycle, it is necessary to check the causes that triggered the alarm, in particular:

- Check that the pellet hopper is not empty
- Check that the burn pot is in the correct position]

Before attempting ignition again, remove any unburnt pellets from the burn pot

	ATTENTION: An excessive amount of pellets in the burn pot, damp pellets or a dirty burn pot can make the ignition phase difficult. In the presence of these critical conditions, dense white smoke can form, which could cause an explosion in the combustion chamber. The explosion can be of such intensity as to shatter the fire door glass.
	ATTENTION: Therefore, never stand in front of the appliance during the ignition phase if the fuel releases dense smoke. In any case, the appliance is equipped with all necessary safety systems to minimise the risk of glass breakage
	If the appliance fails to ignite regularly, the main causes are usually insufficient maintenance or poor-quality pellets

12.6.3. Normal Operation

As soon as the ignition phase is complete, the appliance enters normal operation mode.

During this phase, the following information appears on the remote control:

- The first line shows the time
- The second line shows the temperature of the external boiler (if present) on the left, and the temperature of the water in the appliance on the right.
- The third line shows the word "WORK" and next to it the set power level (from 1 to 5)
- The fourth line normally shows the instantaneous power level (from 1 to 5 flashing), the word "MODULATE" also appears when either the room temperature or the water temperature reaches the set value (see corresponding paragraph).



During normal operation, the following actions can be performed:

- **Set the appliance power level** by selecting one of the 5 available levels. The power is set using keys "5" and "1-2".
- **Set the programmable thermostat parameters** (see the corresponding section below).
- **Set the desired appliance water temperature** within a range of 7°C to 40°C. Press key "4" once and then use keys "2" to increase and "1" to lower.
- **Set the desired water temperature** in a range from 30°C to 80°C. Press key "6" once and then set the temperature with keys "2" to increase and "1" to lower

During operation, a periodic burn pot cleaning cycle is active.

At regular intervals (about every hour), burn pot cleaning mode is activated for about one minute. In this mode, the smoke extractor fan operates at maximum power while pellet feed is reduced to a minimum.

This operation is necessary to eliminate ash deposits inside the burn pot and thus ensure proper ventilation and combustion.

During the burn pot cleaning phase, the message "BURN POT CLEANING" appears on the display.



If an excessive accumulation of pellets in the burn pot is noticed during normal operation, switch off the appliance immediately and contact a Service Centre.

Persisting could make the appliance dangerous.

12.6.4. Modulation according to ambient temperature

This product is equipped with an internal temperature probe that allows it to modulate its power as a function of the desired ambient temperature.

For proper operation of the ambient probe, check that the thermostat probe positioned at the rear is away from the exhaust fume pipe and is not in contact with objects or walls.

Press the button "4" to set the room temperature.

On the remote control the writing "SET TEMP AMBIENTE" appears at the bottom while the set temperature value appears at the top.

To change this value, act on the keys "1" and "2" until the desired temperature is reached (from 7°C to 40°C)

If the ambient temperature reaches the set temperature, the product is brought to the minimum power level and the writing "MODULA" appears on the last line of the remote control.

This modulation state ends only if the ambient temperature returns to being lower than the set temperature.

In this case the product returns to the power set by the user and the writing "MODULA" disappears on the radio control and the standard working indications return.

12.6.5. Modulation based on water temperature

The appliance is equipped with a water temperature probe, which allows it to modulate its power according to the desired temperature value.

To set the temperature by pressing the button once "6" the writing "SET TEMP ACQUA" appears in the lower part of the remote control while the value of the set water temperature appears in the upper part of the remote control.

To change this value, act on the keys "1" and "2" until the desired temperature is reached (from 30°C to 80°C).

It is recommended to set the water temperature between 60°C and 70°C.

Briefly press key "3" to exit programming, or wait a few seconds for the automatic return to the work or rest position. During operation, if the water temperature is much lower than the set value, the appliance operates at the maximum set power level.

When, on the other hand, the water temperature approaches the set value (difference of less than 3°C), the appliance gradually reduces the power level.

The last line of the remote control shows a flashing number indicating the current power level at which the appliance is operating.

If the water temperature drops, the appliance will increase its power level until it returns to the maximum power value initially set.

It is advisable to always set the appliance to its maximum power level, "5".

If, despite power reduction, the water temperature continues to rise and reaches the set temperature, the word "MODULATE" will appear in the bottom line of the remote control.

If, despite modulation, the temperature continues to rise and exceeds the set temperature by a certain value, the appliance enters standby mode.

12.6.6. Circulator

There is a circulator and an expansion vessel for the direct connection of the product deal to the radiator system. The circulator starts as soon as the water reaches a temperature of 55°C and works based on the water temperature.

12.6.7. Burn pot cleaning

During normal operation, at set intervals, "BURN POT CLEANING" mode is activated; during this period, the message "BURN POT CLEANING" appears on the remote control, the appliance increases ventilation and activates the turbulator cleaning system.

This operation helps to reduce ash accumulation inside the burn pot.

	If an excessive pellet accumulation is observed in the burn pot (over half its level), switch off the appliance immediately and clean the burn pot. Contact a Service Centre promptly.
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12.6.8. Switch off

To switch off the appliance, press and hold key "4" for a few seconds.

When the shutdown signal is received, the message "FINAL CLEANING" will appear on the remote control, while the smoke extractor fan continues to operate at maximum speed for at least 10 minutes to ensure complete cooling of the appliance.

The hot air fan also continues to operate until the appliance has cooled.

	ATTENTION: Never disconnect the electrical power supply during this phase, as this could damage the appliance and compromise subsequent ignition cycles.
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12.6.9. Power interruption

In the event of a short power interruption (less than 10 seconds), the appliance resumes operation automatically without alarms.

For longer interruptions while the appliance is in normal operation, an "AL 1 – BLACKOUT" alarm is generated.

In this case, the appliance does not restart automatically but it will be necessary to clear the alarm manually.

13. MENU

Press key "3" (MENU) to access the menu.

This menu is divided into various items and levels, which give access to control board settings and programming.

Menu items that allow access to technical programming are password-protected.

USER/INSTALLER

13.1. Menu 01 "WATER PRESSURE"

Menu 1 displays the water pressure.

Using keys "1" and "2", pressure monitoring can be disabled ("off") if the appliance is connected to an open expansion vessel or in case of a pressure transducer fault

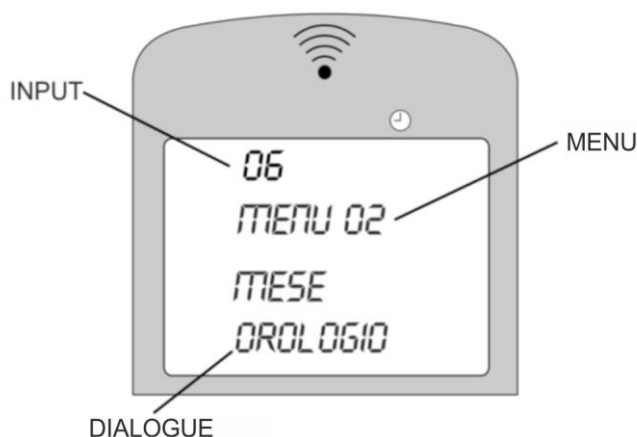
13.2. Menu 02 "CLOCK SETTINGS"

This menu is used to set the current time and date.

The control board is equipped with a lithium battery, which allows the internal clock to run for more than 3/5 years.

Upon entering the MENU, the following can be set in order;

- 01 The day of the week (Monday ... Sunday)
- 02 The hour (0... 23)
- 03 The minutes (0... 59)
- 04 The day of the month (1...31)
- 05 The month of the year (1...12)
- 06 The current year (2000... 2099)



13.3. Menu 03 "CHRONO SETTINGS"

This menu is used to enable and program ignitions and shutdowns.

There are eight different options, divided into three groups:

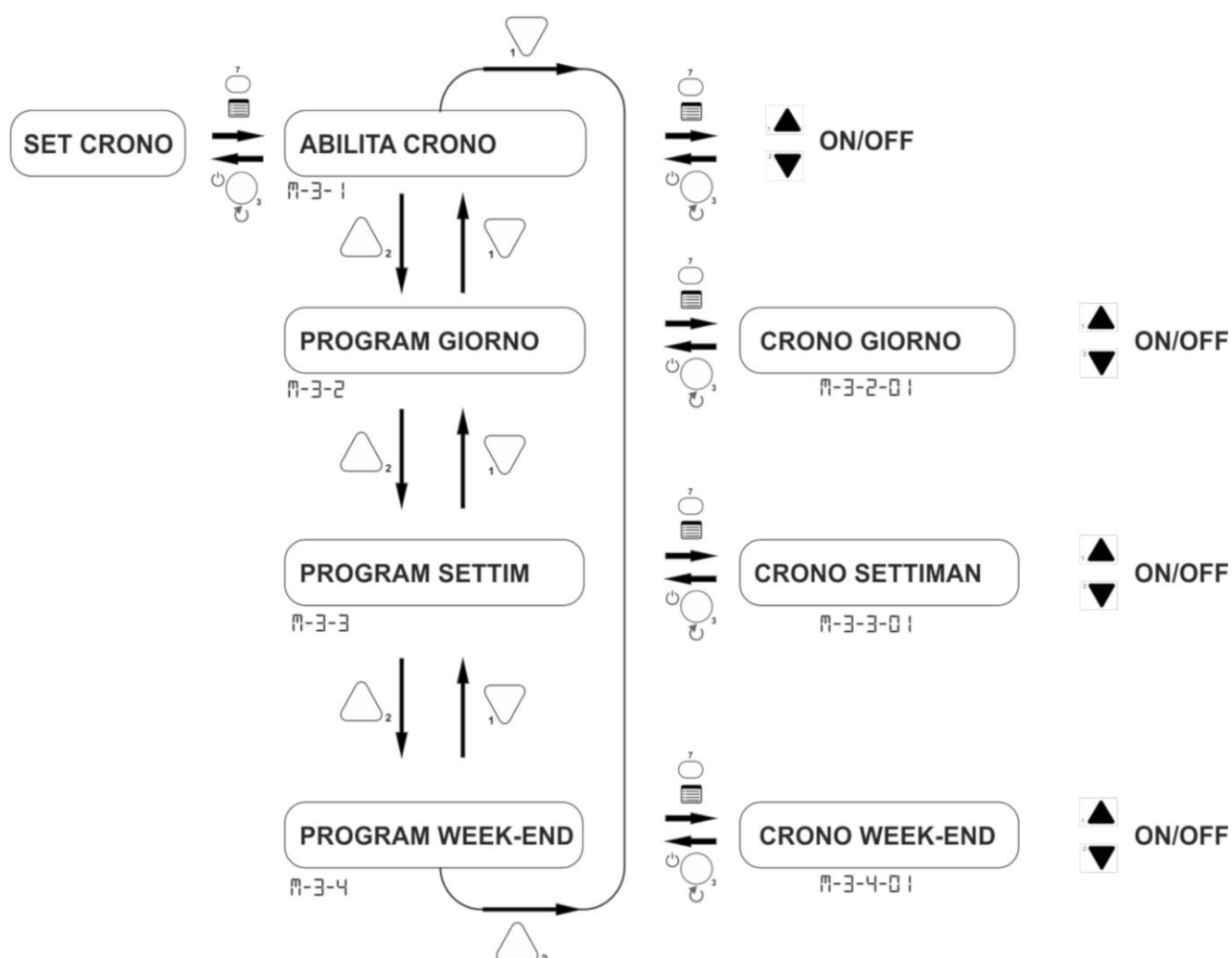
Daily program: 2 ignitions and shutdowns that are valid every day

Weekly program: 4 ignitions and shutdowns for which you can select the days of the week on which they are active.

Weekend program: 2 ignitions and shutdowns valid only for Saturdays and Sundays.

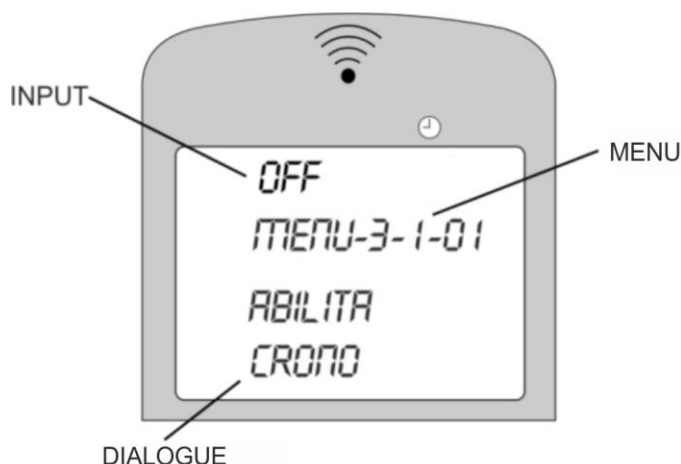
Below is the diagram of the various levels of the Menu.

In this regard, remember that you enter the menu with key (7), return to the previous menu with key (3) , scroll through the menu with key (1) and (2) and change the value again with keys (1) and (2) .



13.3.1. Menu 3-1 "ENABLE CHRONO"

This menu is used to globally enable and disable all the programmable thermostat functions.
If the value is set to "off" all the set programs are disabled.



13.3.2. Menu 3-2 "DAILY PROGRAM"

This menu is used to enable, disable and set the daily programmable thermostat functions.



After setting the "CHRONO DAY" parameter to "On", it is possible to set 2 switches on and 2 switches off.
Each parameter can either be set to "off" if you do not wish to activate it, or the ignition and switch off time can be entered

menu level	selection	meaning	possible values
M 3-2-02	START 1	Activation time	00:00-23:50 -OFF
M 3-2-03	STOP 1	Deactivation time	00:00-23:50 -OFF
M 3-2-04	START 2	Activation time	00:00-23:50 -OFF
M 3-2-05	STOP 2	Deactivation time	00:00-23:50 -OFF

13.3.3. Menu3-3 "WEEKLY PROGRAM"

The Weekly program group includes 4 ignitions and 4 shutdowns.

For each ignition/shutdown pair, you can select the days of the week on which the corresponding command pair should be active.

The first parameter M-3-3-01 "WEEKLY CHRONO" allows you to enable or disable all the weekly programmable thermostat settings.

After setting the first parameter (M-3-3-01) "WEEKLY CHRONO" to "on", it is possible to set the 4 ignitions and 4 switches off.

Each parameter can either be set to "off" if you do not wish to activate it, or the ignition and shutdown time can be entered.

After each ignition/shutdown pair, there are 7 parameters corresponding to the 7 days of the week.

Each of these parameters can be set to "On" or "Off" depending on whether you wish to activate the corresponding programs on that day of the week.

(See table below).

PROGRAM 1			
M 3-3-02	START PROG 1	switch on time	00:00-23:50 -OFF
M 3-3-03	STOP PROG 1	switch off time	00:00-23:50 -OFF
M 3-3-04	MONDAY PROG 1	reference day	on/off
M 3-3-05	TUESDAY PROG 1	reference day	on/off
M 3-3-06	WEDNESD-PROG 1	reference day	on/off
M 3-3-07	THURSDAY PROG 1	reference day	on/off
M 3-3-08	FRIDAY PROG 1	reference day	on/off
M 3-3-09	SATURDAY PROG 1	reference day	on/off
M 3-3-10	SUNDAY PROG 1	reference day	on/off

PROGRAM 2			
M 3-3-11	START PROG 2	switch on time	00:00-23:50 -OFF
M 3-3-12	STOP PROG 2	switch off time	00:00-23:50 -OFF
M 3-3-13	MONDAY PROG 2	reference day	on/off
M 3-3-14	TUESDAY PROG 2	reference day	on/off
M 3-3-15	WEDNESD-PROG 2	reference day	on/off
M 3-3-16	THURSDAY PROG 2	reference day	on/off
M 3-3-17	FRIDAY PROG 1	reference day	on/off
M 3-3-18	SATURDAY PROG 1	reference day	on/off
M 3-3-19	SUNDAY PROG 1	reference day	on/off

PROGRAM 3			
M 3-3-20	START PROG 3	switch on time	00:00-23:50 -OFF
M 3-3-21	STOP PROG 3	switch off time	00:00-23:50 -OFF
M 3-3-22	MONDAY PROG 3	reference day	on/off
M 3-3-23	TUESDAY PROG 3	reference day	on/off
M 3-3-24	WEDNESD-PROG 3	reference day	on/off
M 3-3-25	THURSDAY PROG 3	reference day	on/off
M 3-3-26	FRIDAY PROG 3	reference day	on/off
M 3-3-27	SATURDAY PROG 3	reference day	on/off
M 3-3-28	SUNDAY PROG 3	reference day	on/off

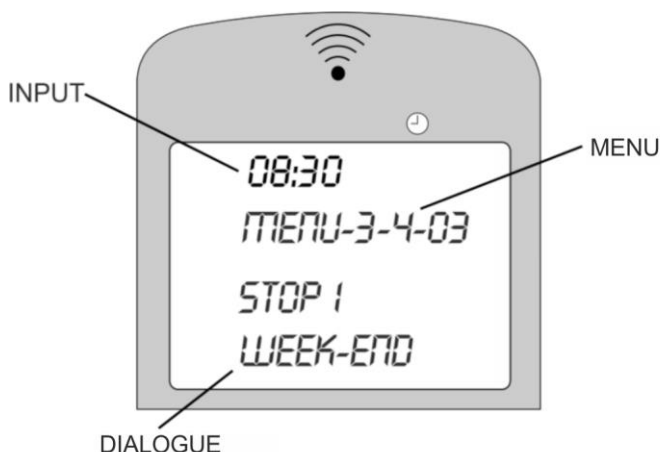
PROGRAM 4			
M 3-3-29	START PROG 4	switch on time	00:00-23:50 -OFF
M 3-3-30	STOP PROG 4	switch off time	00:00-23:50 -OFF
M 3-3-31	MONDAY PROG 4	reference day	on/off
M 3-3-32	TUESDAY PROG 4	reference day	on/off
M 3-3-33	WEDNESD-PROG 4	reference day	on/off
M 3-3-34	THURSDAY PROG 4	reference day	on/off
M 3-3-35	FRIDAY PROG 4	reference day	on/off
M 3-3-36	SATURDAY PROG 4	reference day	on/off
M 3-3-37	SUNDAY PROG 4	reference day	on/off

13.3.4. Menu 3-4 “WEEKEND PROGRAM”

This menu is used to enable, disable and set the programmable thermostat functions for the weekend (i.e. Saturday and Sunday).

As with the daily program, there is an enabling parameter and 2 ignition/shutdown time pairs.

The programs will be active as mentioned only on Saturdays and Sundays.



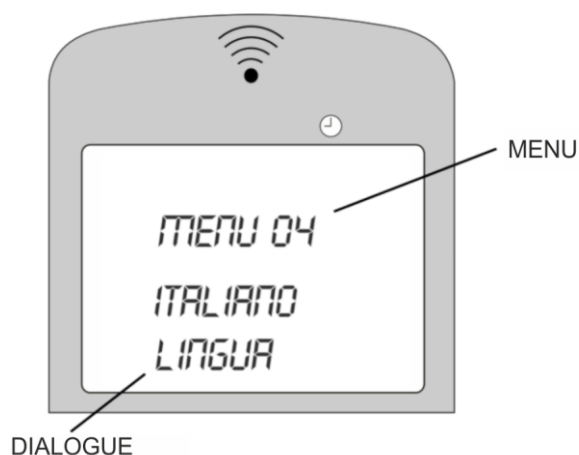
TIP:

in order to avoid confusion and unwanted ignition and switch off operations, only activate one program at a time unless you are certain of the desired outcome.

Disable the daily program if you wish to use the weekly program; always keep the weekend program disabled if using the weekly program; enable the weekend program only after the weekly program has been disabled.

13.4. Menu 04 "LANGUAGE SELECTION"

It is used to select the display language from the available options.



13.5. Menu 05 "PROBE selection"

This menu allows to choose whether to use the integrated room probe on the remote control or the one inside the product

13.6. Menu 06 "STAND-BY MODE"

Allows to activate or deactivate the "STAND-BY" mode (The default setting is "OFF").

The standby mode indicates a state in which the product is switched off but can be switched back on as soon as the ambient temperature drops below the set value; the switch off delay can be set to a value between 1'-120'.

If the standby mode is active when the ambient temperature exceeds the set value by 2°C, the product first goes into modulation and then after the chosen switch off delay, if the temperature does not return below the set value it switches off, entering standby mode.

During switch off, the words "WAIT FOR COOLING" appear on the remote control.

This writing remains on the remote control until the conditions for re-ignition are met.

When the product is controlled by an external thermostat, activating the stand-by mode it is possible to control switching on and off directly from the thermostat.

13.7. Menu 07 "BUZZER MODE"

When "off" disables the acoustic signal in the event of an alarm.

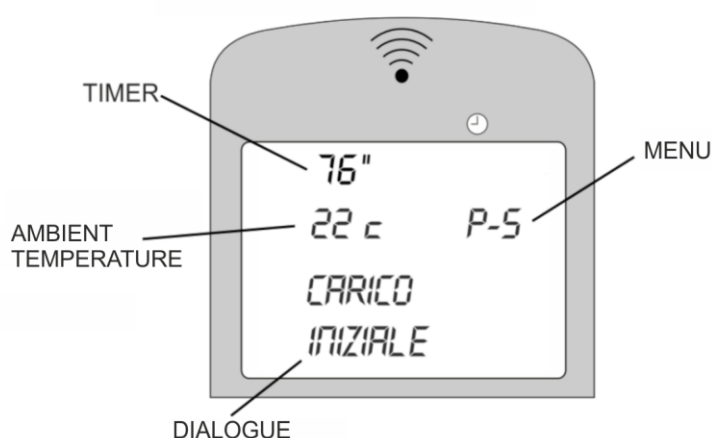
When it is set to "on", an audible signal will be activated when an alarm is triggered.

13.8. Menu 08 "INITIAL LOAD"

This menu is used to set a pellet pre-load when the word "OFF" appears on the remote control, for a variable time depending on the model.

Press key "1" to start and key "4" to stop.

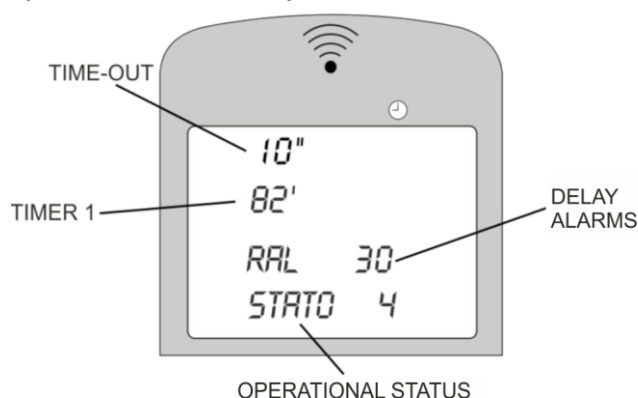
Once the pre-load is complete, remove the pellets from the burn pot.



13.9. Menu 09 "STOVE STATUS"

This menu shows the instantaneous status of the appliance, displaying certain probe values and internal variables. There are four pages displayed in succession.

This menu is intended for specialised technical personnel.



13.10. Menu 10 "TECHNICIAN CALIBRATIONS"

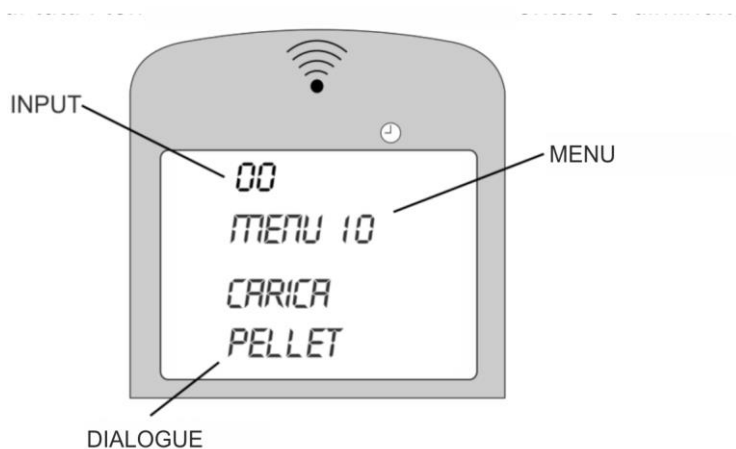
This password-protected menu is intended for specialised technical personnel.

13.11. Menu 11 "PELLET TYPE"

This menu is used to simultaneously increase or decrease all the pellet feed parameters (quantity of pellets delivered to the burn pot).

The default value is 00. Use keys "1" and "2" to change this value from -9 to +9.

For each unit, the value of all pellet load times is increased or decreased by 2.5%

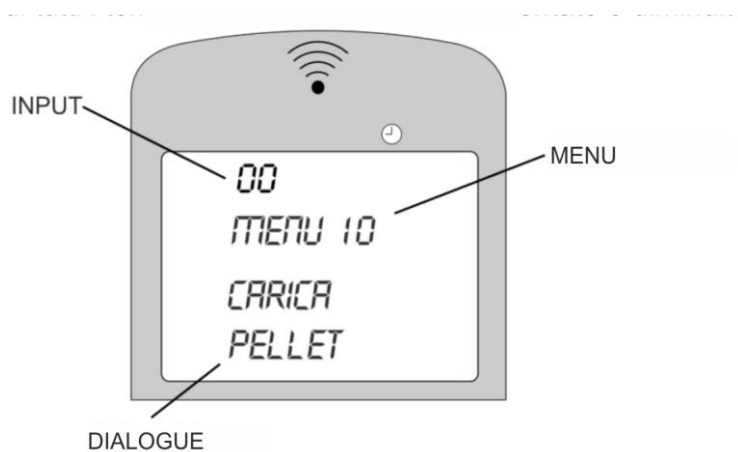


13.12. Menu 12 "FLUE TYPE"

This menu is used to simultaneously increase or decrease all flue fan (draught) parameters.

The default value is 00. Use keys "1" and "2" to change this value from -9 to +9.

For each unit, the value of the flue fan motor speed is increased or decreased by 2.5%.



14. MAINTENANCE

USER/INSTALLER

Before performing any maintenance operation, disconnect the product from the mains power supply.

A lack of maintenance prevents the product from operating smoothly.

Any problems due to a lack of maintenance will invalidate the warranty.

	The characters of the safety information are larger according to the standards
---	---

14.1. Daily maintenance

Operations to be performed, with the product switched off, cold and preferably disconnected from the mains.

A suitable vacuum cleaner is required.

The entire procedure takes a few minutes.

	The ash may contain parts that are still hot and/or embers
---	---

	Make sure that the ash drawer is put securely back in place, otherwise the glass may break by hitting against it. Make sure that the crucible is securely in place after maintenance, otherwise the product may have ignition problems.
---	---

	Do not discharge any cleaning residues into the pellet hopper.
---	---

	Using the product without having cleaned the burning pot can cause the gases inside the combustion chamber to ignite suddenly, resulting in detonation/breakage of the glass.
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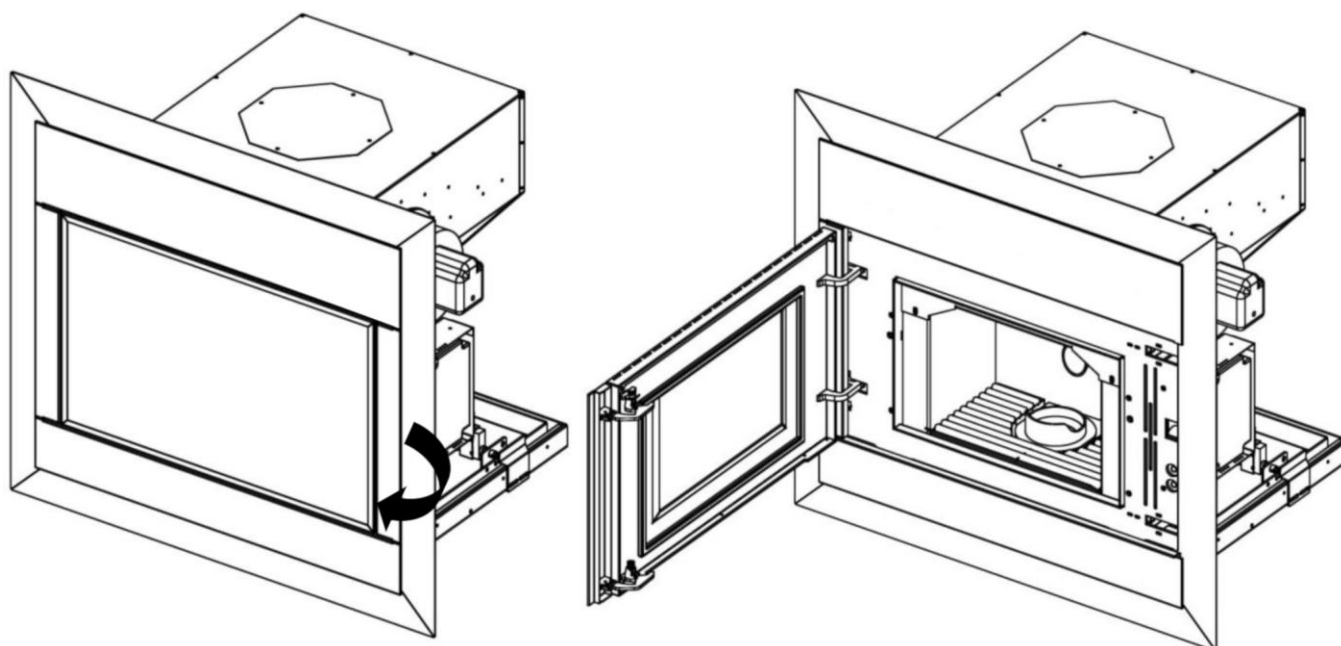
14.2. Opening the door

During operation, the door must remain closed.

The door must only be opened when the appliance is off and cold for routine maintenance and cleaning operations.



Be sure to press the handle until you hear the click when closing the door.



14.3. Disposal of ashes

The ash collection compartment must be emptied regularly, in order to prevent combustion residues from reaching the burn pot support.

The ash must be placed in a metal container with a tight-fitting lid.

Until the ash is completely extinguished, the closed container must be placed on non-combustible base or on the ground, well away from combustible materials.



WARNING: the ash keeps the fire burning for a long time!!!

14.4. Burn pot cleaning

When the flame turns red or is weak and accompanied by black smoke, it may mean that there are ash deposits or encrustations that prevent proper operation and that must be removed.

Every two days, remove the burn pot by lifting it from its seat and then removing any ash and deposits that may have formed, paying special attention to clearing any blocked holes using a pointed tool.

This operation is particularly important - especially during the first few uses - at each ignition, or when using different quality pellets.

The frequency of this operation will be determined by the intensity of use and the choice of fuel.

It is also good to check the burn pot support, eliminating the possible presence of ash.

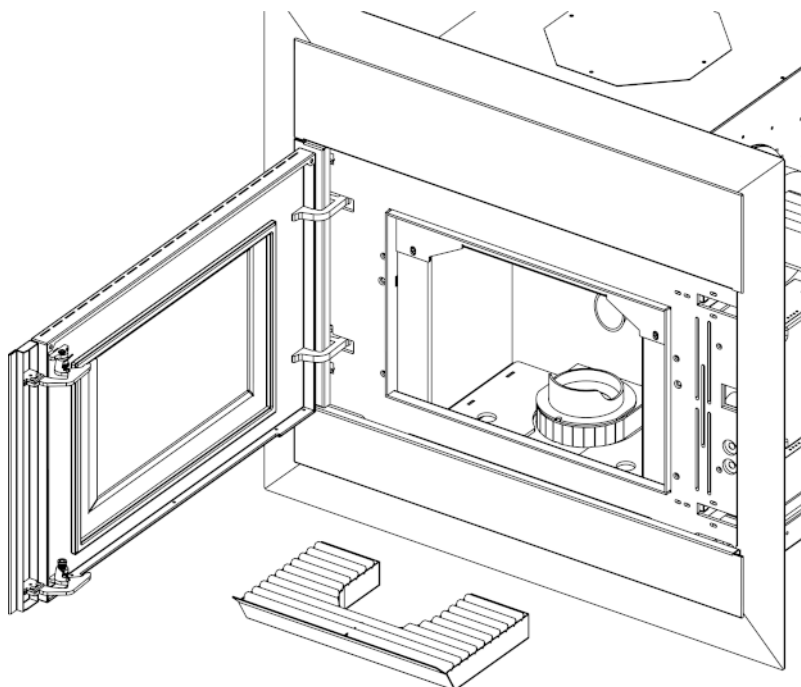


ATTENTION: before switching on the appliance, check that the burn pot is pushed back against the baffle and that the glow plug tube is correctly inserted into the corresponding hole in the burn pot

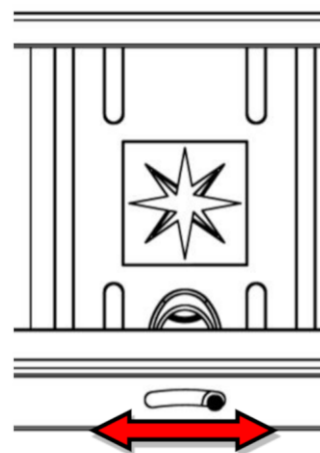
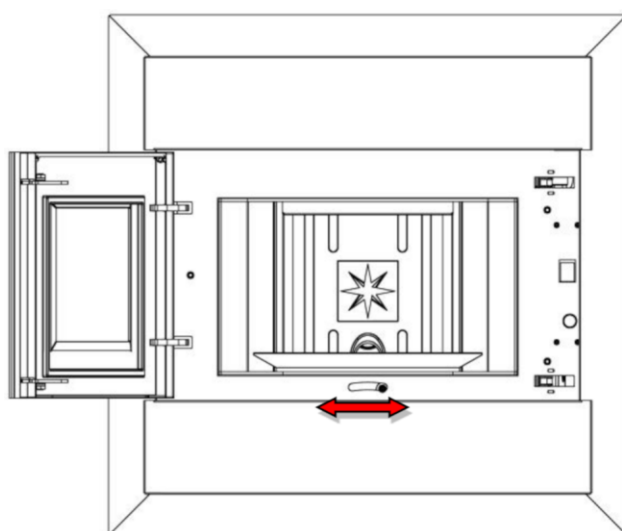
14.5. Cleaning the ash drawer

Every two days, check the ash drawer to determine whether it needs to be emptied.

For the disposal of ashes, see the dedicated paragraph



In the Pellkamin H 22 model, when cleaning the ash drawer, the flue passage pipes must be cleaned; to carry out this cleaning, the door must be opened and the knob located in the lower part of the front must be moved a few times to the right and left.

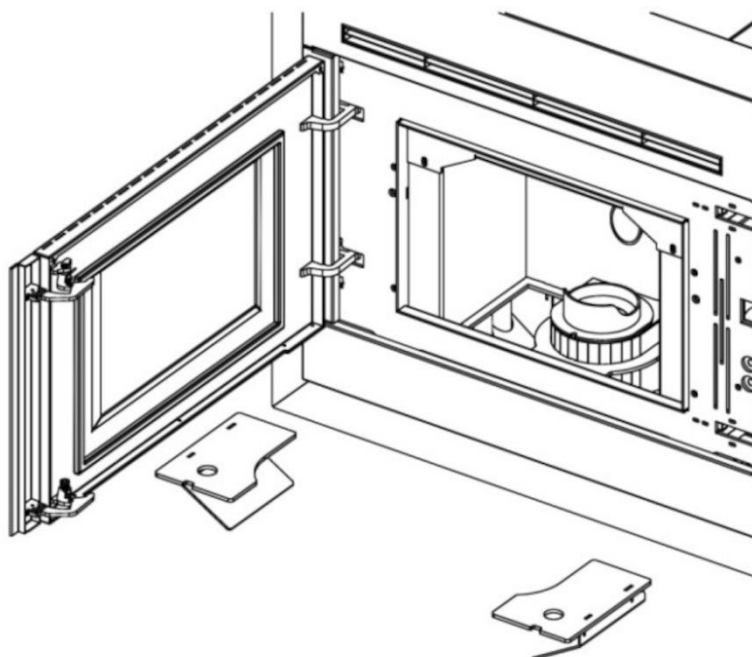


14.6. Cleaning the combustion chamber

Weekly, clean the combustion chamber by vacuuming away any ash that accumulates in the combustion chamber.



N.B. For this type of cleaning, it is necessary to use a vacuum cleaner suitable for ash removal.



14.7. Flue chamber cleaning

Generally once a year (preferably at the beginning of the season), for the proper functioning of the product, extraordinary cleaning of the flue chamber must be carried out.

The frequency of this operation depends on the type of pellet used and the intensity of use.

For this cleaning operation, it is advisable to contact a Technical Service Centre.

14.8. Cleaning the exhaust system

Until you gain sufficient experience with the stove's operating conditions, it is advisable to perform this maintenance operation at least once a month.

Remove the cap from the T-fitting and clean the ducts.

If necessary, at least for the first few times, contact qualified personnel.

14.9. Cleaning the metal and ceramic parts

To clean the metal parts of the product, use a soft cloth moistened with water, NEVER CLEAN the METAL and CERAMIC PARTS WITH ALCOHOL, THINNERS, PETROL, ACETONE OR OTHER DEGREASING SUBSTANCES.

If these substances are used, the Company declines all responsibility for any damage.

Any changes in the colour of the metal parts may result from improper use of the product

14.10. Cleaning the glass

The door glass must be cleaned (when cold) using non-corrosive, ammonia-based degreasing substances such as thinners.

Prevent corrosive substances from coming into contact with the painted parts of the appliance, as they could damage it.

If the glass is hot, before cleaning, keep the door open until it has cooled sufficiently.

However, do not use materials that could scratch or damage the glass.

14.11. Glass breakage

The product is equipped with a 5 mm thick ceramic glass, resistant to a thermal shock of 750°C.

Glass can only be broken due to a strong impact or improper use.

Do not slam the door or hit the glass.

In case of breakage, replace the glass only with an original spare part.

Contact a Technical Service Centre for replacement.

14.12. Cleaning the fans

The product is equipped with fans (ambient and/or fumes) positioned at the rear and bottom.

Any dust or ash deposits on the fan blades lead to an imbalance that causes noise during operation.

It is therefore necessary to clean the fans at least annually.

Since this operation involves having to disassemble some parts of the product, have the fan cleaned only by the Technical Service Centre or by qualified personnel.



WARNING: every cleaning and/or maintenance operation must be carried out with the POWER OFF

14.13. Appliance inactivity

After the last seasonal use, perform the following operations:

- remove all the pellets from the tank and the auger;
- thoroughly clean the burn pot, burn pot support, combustion chamber and ash drawer;
- thoroughly clean the fume exhaust system. For this purpose, contact a professional chimney sweep;
- clean the area behind the interior cladding panels once a year, especially the fans, from dust, cobwebs, etc.;
- disconnect the power cable.

14.14. Seasonal maintenance

USER/INSTALLER

	Seasonal maintenance is performed by the technical service centre, in accordance with local and national regulations. The technician can find instructions on the website.
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These operations are to be scheduled ANNUALLY with a Technical Assistance Center and are necessary to ensure the maintenance of the product's efficiency and ensure its safe operation:

- thorough cleaning of the combustion chamber and heat exchanger;
- disassembly and cleaning of the smoke engine, smoke exhaust duct, application of new silicone where required;
- inspection and verification of seal tightness, replacement of worn seals and application of silicone where applicable;
- emptying and cleaning the tank;
- control of the electrical part and electronic components;
- cleaning and checking of the depressimeter, silicone tube and hose holder;
- control and possible replacement of components subject to wear: crucible, resistance, ash drawers, etc.

	In the case of very frequent use of the product, it is advisable to clean the smoke flue and duct every 3 months. In any case, clean the chimney system at least once a year (check whether there are regulations in your country). Periodically empty any TEE placed on the chimney system by the installer
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	We recommend that you DO NOT use compressed air to clean the combustion air inlet pipe
---	--

	If regular inspections and cleaning are not carried out, there will be an increased risk of fire in the chimney.
---	--

14.15. Repairs

To be carried out only by licensed Edilkamin retailers/technical service centres. The names of the contracted and licensed Edilkamin technical service centres and retailers are available ONLY on www.edilkamin.com.

14.16. Spare parts

- For any spare parts, contact the retailer or the technician.
- Have any repairs carried out only by licensed Edilkamin retailers/technical service centres.
- The names of the contracted and licensed Edilkamin technical service centres and retailers are available ONLY on www.edilkamin.com.
- The use of non-original components causes risks to the product and relieves Edilkamin from any liability for any resulting damage. It also invalidates the warranty, as it is considered tampering.
- Any unauthorised modifications are prohibited.

15. DISPOSAL

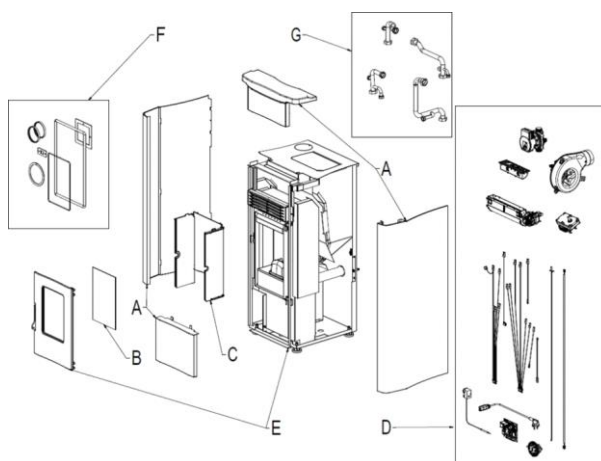
At the end of its service life, dispose of the product in accordance with current regulations.

15.1. Warnings for the correct disposal of the product

The demolition and disposal of the product are the sole responsibility of the owner who will have to act in compliance with the applicable laws in their country on safety, respect and protection of the environment.

	Do not dispose of with municipal waste. Do not throw it away.
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15.2. Disposal of the components of the appliance at the end of its service life



The drawings are indicative

The following table lists the components of the appliance and the indications for correct separation and disposal. In particular, the electrical and electronic components must be separated and disposed of at the centres authorised for this activity, according to the WEEE directive 2012/19/EU.

A. EXTERNAL COVERS	C. INTERNAL LINING
If present, dispose of it separately according to the material it is made of: • Metal • Glass • Tiles or ceramics • Stone	If present, dispose of it separately according to the material it is made of: • Metal • Refractory materials • Insulating panels • Vermiculite • Insulating panels, vermiculite and refractory materials coming into contact with the flame or the exhaust gases (dispose of in mixed waste)
B. GLASS AND DOORS	D. ELECTRICAL AND ELECTRONIC COMPONENTS
If present, dispose of it separately according to the material it is made of:	If present, dispose of it separately according to the material it is made of:

• Ceramic glass (fire door): dispose of in inert or mixed waste • Tempered glass (oven door): dispose of in glass	• Wiring, motors, fans, pumps, display, sensors, spark plug, electronic boards. Dispose of separately at authorised centres, as indicated by the WEEE directive 2012/19/EU
E. METAL STRUCTURE Dispose of separately in metal	G. HYDRAULIC COMPONENTS Pipes, fittings, expansion tank, valves. If present, dispose of separately according to the material they are made of: • Copper • Brass • Steel • Other materials
F. NON-RECYCLABLE COMPONENTS. • Gaskets • Rubber hoses • Silicone or fibre Dispose of in mixed waste	

15.3. WEEE

Pursuant to art. 26 of Italian Legislative Decree of 14 March 2014, no. 49 "Implementation of Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)".

The crossed bin symbol on the appliance or on its packaging indicates that the product at the end of its useful life must be collected separately from other waste.

The user must therefore deliver the equipment at the end of its life to suitable recycling centres for electronic and electro-technical waste.

Adequate separate collection for subsequent recycling, treatment and environmentally compatible disposal contributes to avoiding possible negative effects on the environment and on health and encourages reuse and/or recycling of the materials of which it is composed.



16. SAFETY DEVICES AND ALARMS

USER/INSTALLER

16.1. Safety devices

	ATTENTION: During operation, some parts of the appliance (door, handle, ceramic parts) may reach high temperatures.
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Remember to maintain the safety distances specified above.

Therefore, be very careful, use the necessary precautions and always follow the instructions.

If, during operation, smoke leaks out of any part of the appliance or flue pipe, switch off the appliance immediately, without disconnecting the power supply, and ventilate the room.

Once it has cooled down, investigate the cause of the leak and, if necessary, contact specialised technical personnel.

The appliance is equipped with some devices designed to ensure safe operation.

	ATTENTION: The safety devices are intended to eliminate any risk of damage to people, animals or property; tampering with them or interventions by unauthorised personnel may compromise safety.
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The safety devices present are as follows:

16.1.1. Smoke outlet pressure sensor

This sensor is connected to the flue gas exhaust duct.

It monitors the internal vacuum of the duct to detect any blockage in the flue, allowing the appliance to operate safely.

Activation

If the correct operating conditions of the flue gas exhaust duct are altered (incorrect installation, presence of obstacles or obstructions in the exhaust duct, inadequate maintenance, adverse weather conditions such as persistent wind, etc.), the draught sensor (pressure sensor) interrupts the electrical power supply to the pellet auger, thus stopping the pellet feed to the burn pot and sending an alarm signal to the control board.

The alarm can also be caused by product clogging, bad combustion or missed annual cleaning.

When the alarm is activated, the message "AL 8 - NO PRESS.SENSOR" appears on the remote control.

16.1.2. Temperature sensor

This product is equipped with a manual reset bulb thermostat that has the function of preserving the pellet tank and consequently the entire structure from excessive temperature excursions.

Activation

If the pellet loading tube reaches the threshold of 85°C, the thermostat interrupts the power supply to the auger, thus blocking the pellet supply to the burn pot and sending an alarm signal to the board.

The words "AL 7 - Thermal safety" appear on the remote control.

16.1.3. Smoke temperature probe

The smoke probe is connected directly to the electronic board and constantly monitors the operating temperature of the exhaust fumes, allowing the product to be used in total safety.

Operation

If the smoke temperature exceeds a preset limit, the control board switches to modulation mode.

The words **"MODULATE / MAX FUMES"** appear on the remote control.

If the smoke temperature continues to rise despite switching to modulation, and it exceeds a second safety limit set by the appliance, the system enters alarm mode.

The pellet feed is interrupted and the smoke extractor fan is set to maximum speed.

The words **"AL 3 - "FUME TEMP"** appear on the remote control.

The electronic board constantly monitors the correct operation of the smoke probe; if the probe becomes temporarily and/or accidentally detached from its seat, or if the connector is not correctly positioned on the electronic control board, or if the probe fails for any reason,

the problem is reported by with the message **"AL 2 - " SMOKE PROBE"** which appears on the remote control.

16.1.4. Water temperature probe

The water probe is connected directly to the electronic board and constantly monitors the water temperature, allowing the product to be used in total safety.

Operation

If the water temperature exceeds the first preset temperature limit, the control board switches to modulation mode.

The words "modulate" appear on the remote control.

If the water temperature continues to increase despite modulation and it exceeds a second preset safety limit (approximately 90°C), the appliance switches to alarm mode.

The words **"AL A -" WATER temp"** appear on the remote control.

The electronic board constantly checks the functionality of the water probe; if the probe detaches momentarily and/or accidentally from its seat, or the connector is not correctly positioned on the electronic board or the probe fails for any reason, the problem is reported by saying on the remote control **"AL 9 - " WATER PROBE "**.

16.1.5. Water pressure switch

The water pressure switch is connected directly to the electronic board and constantly monitors the water pressure allowing the product to be used in total safety.

Operation

If the water pressure is lower than 0.5 bar or higher than 2.5 bar, the appliance switches to alarm mode.

The words **"AL b -" WATER PRESS"** appear on the remote control.

16.2. Alarms

If an operating fault occurs, the control board intervenes and signals the fault, operating in different ways depending on the type of alarm. The following alarms are envisaged:

Alarm cause	Display message
Mains power failure	AL1 BLACKOUT
Smoke temperature probe	AL2 SMOKE PROBE
Smoke overtemperature	AL3 SMOKE TEMP
Flue fan faulty	AL4 EXTRACTOR FAULT
Failed ignition	AL5 FAILED IGNITION
Shutdown during the work phase	AL6 NO PELLET
General safety thermostat	AL7 THERMAL SAFETY
Auger safety pressure switch	AL8 NO DRAUGHT

ANY ALARM CONDITION CAUSES THE IMMEDIATE SHUTDOWN OF THE APPLIANCE

To exit the alarm condition, press and hold key "4" until the message "FINAL CLEANING" appears.

Other operations will also need to be performed based on the type of alarm generated.

If the alarm condition is not cleared within a certain time (a few hours), the alarm will be stored in the appliance's memory and the message "ALARM MEMORY" will appear on the display.

To exit this condition, press key "3" **as described above**.

AL 1 - Blackout

This alarm is triggered when the appliance is disconnected from the mains power supply.

What to do

Put the appliance in standby mode by pressing and holding the off key (3) for a few seconds

AL 2 - Smoke probe

This alarm indicates that the smoke probe is broken

What to do

- Put the appliance in standby mode by pressing and holding the off key (3) for a few seconds.
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished.
- If necessary, contact the Service Centre to have the probe replaced.

AL 3 - Smoke temp

This alarm indicates excessive flue gas outlet temperature

What to do

- Put the appliance in standby mode by pressing and holding the off key (4) for a few seconds
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished.
- Check and remove the causes that triggered the safety device.
- After cleaning the burn pot, restart the appliance by pressing key (4).

AL 4 - Extractor fault

This alarm indicates that the control board has not detected the speed of the flue fan motor.

It can be triggered either by a motor failure or by a fault in the connection between the speed sensor (encoder) in the motor and the control board.

What to do

Put the appliance in standby mode by pressing and holding the off key (4) for a few seconds.

Try to turn the appliance back on.

If the problem persists, contact a Service Centre.

AL 5 - Failed ignition

This alarm indicates a failed ignition.

The alarm is triggered when the maximum waiting time (about 20 minutes) is exceeded during the ignition phase without successful ignition. (see ignition)

AL 6 - No pellet

This alarm indicates that no flame is present in the burn pot during normal operation.

The main causes are:

the pellets in the hopper have run out or the pellet auger is blocked.

What to do

- Put the appliance in standby mode by pressing and holding the off key (3) for a few seconds.
- Remove all unburnt pellets from the burn pot.
- If the hopper is empty, refill with pellets and restart the appliance.

Do not add pellets until the appliance has cooled completely.

Pellets must always be added with the appliance off or, if in operation, only when the flame is present.

- If the pellet auger is blocked, the hopper must be emptied and any foreign bodies present in the auger must be removed.

Then reload the pellets and restart the appliance.

In case of repeated auger blockages, contact a Service Centre.

AL 7 - Thermal safety

This alarm is triggered by the intervention of the safety thermostat installed in the appliance

What to do

- Put the appliance in standby mode by pressing and holding the off key (4) for a few seconds.
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished;
- **Reset the safety thermostat** located at the back of the appliance under the power socket.

Before resetting, make sure that the appliance is off and completely cold, then perform the following operations:

- Unscrew the cap located at the back of the appliance;
- Press the red button gently;
- Screw the cap back into its seat;
- **After cleaning the burn pot**, restart the appliance by pressing key 4;

AL 8 - No draught

This alarm is triggered by the intervention of the draught sensor (pressure sensor)

What to do

- Put the appliance in standby mode by pressing and holding the off key (4) for a few seconds.
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished;
- Wait for the appliance to cool, then check and remove the causes that triggered the safety device.

Finally, after cleaning the burn pot, restart the appliance by pressing the ON/OFF key (4).

In case of repeated alarms, contact a Service Centre.

AL 9 - Water probe

This alarm is triggered by a broken or disconnected water probe

What to do

- Put the appliance in standby mode by pressing and holding the off key (3) for a few seconds.
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished.
- If necessary, contact the Service Centre to have the probe replaced.

AL A - Water temp

This alarm is triggered by water overtemperature in the appliance

What to do

- Put the appliance in standby mode by pressing and holding the off key (3) for a few seconds.
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished.
- Check and remove the causes that triggered the safety device.
- After cleaning the burn pot, restart the appliance by pressing key (3).

AL B - Water press

This alarm is triggered by incorrect water pressure in the appliance (see safety devices).

What to do

- Put the appliance in standby mode by pressing and holding the off key (3) for a few seconds.
- Wait and make sure that combustion of the remaining pellets in the burn pot has finished.
- Check and remove the causes that triggered the safety device.
- Check and adjust the pressure level in the hydraulic circuit.
- After cleaning the burn pot, restart the appliance by pressing key 3.

Service Hours

This warning appears on the display after a certain number of hours of operation.

It does not stop the operation of the appliance, but it warns the user that it is necessary to contact a Technical Service Centre to carry out extraordinary maintenance operations on the appliance.



#iosonoilfuoco

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cod. 943131-GB I 09.26/C
