



PRISMA H 22
PRISMA H 22 ACS
PRISMA H 27
PRISMA H 27 ACS

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 with the user manual 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 from the drop-down lists.
- Click on "download" to download the manual in pdf.



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

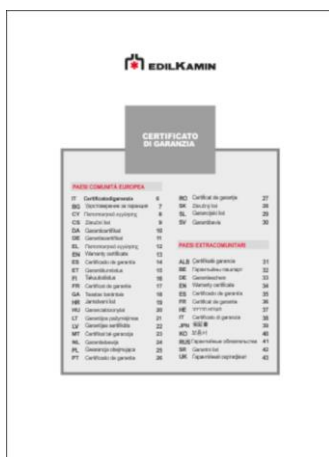
	PROHIBITION: Indication of operations that must NOT be performed, to avoid damage.
	ATTENTION: Carefully read and understand the message it refers to because failure to comply may result in serious damage to the product and put the user's safety at risk.
	INFORMATION: Not following these instructions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

4. SAFETY INFORMATION

USER/INSTALLER



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

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.

4.4. MANDATORY COMPONENTS



ATTENTION: READ CAREFULLY

- Insulated flue duct, including the section inside the installation room, suitable for solid fuels and resistant to condensation – designed for negative pressure operation (N1) but gas-tight up to 0.2 mbar.

Refer to Standard UNI 10683:2022.

- 1" anti-condensation valve with opening between 45 and 55°C.
- Water softener and domestic hot water filter (only on versions with DHW)
- Magnetic dirt filter and deareator
- Room thermostat connected to the external terminal block using a clean "NO" contact.



Failure to install one or more of these components may result in the Manufacturer limiting its liability and invalidating the warranty

4.5. RECOMMENDED SETTINGS

- Set the appliance water temperature to 70°C.
- It is advisable not to use the "chrono" mode available on the appliance, to avoid unnecessary cooling of the storage tank and consequent shortage of domestic hot water on demand.

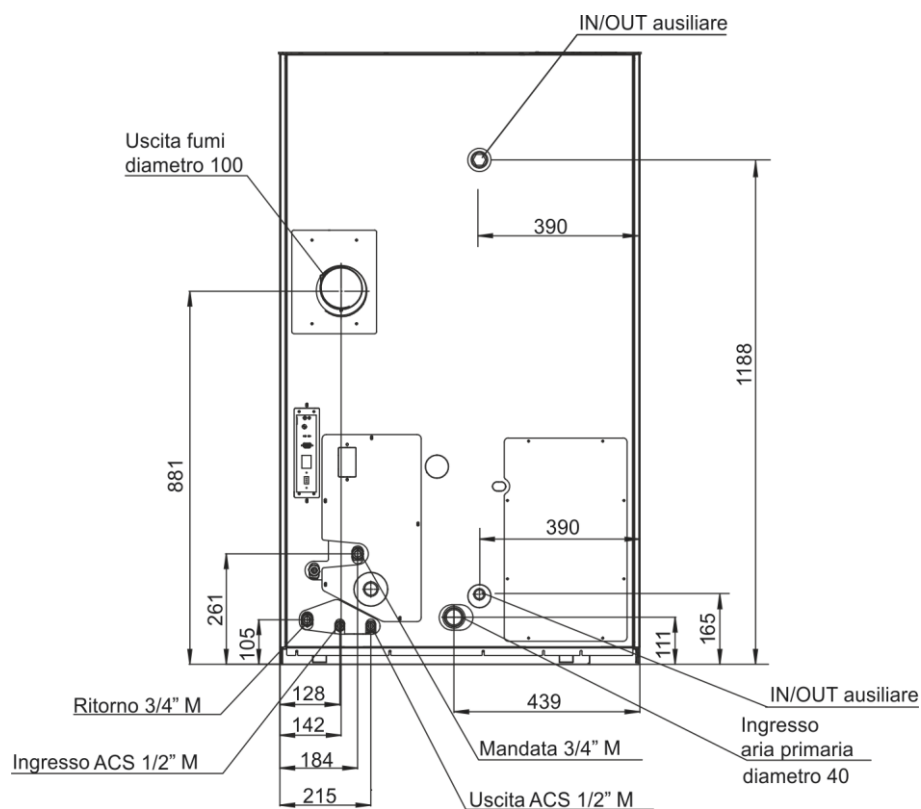
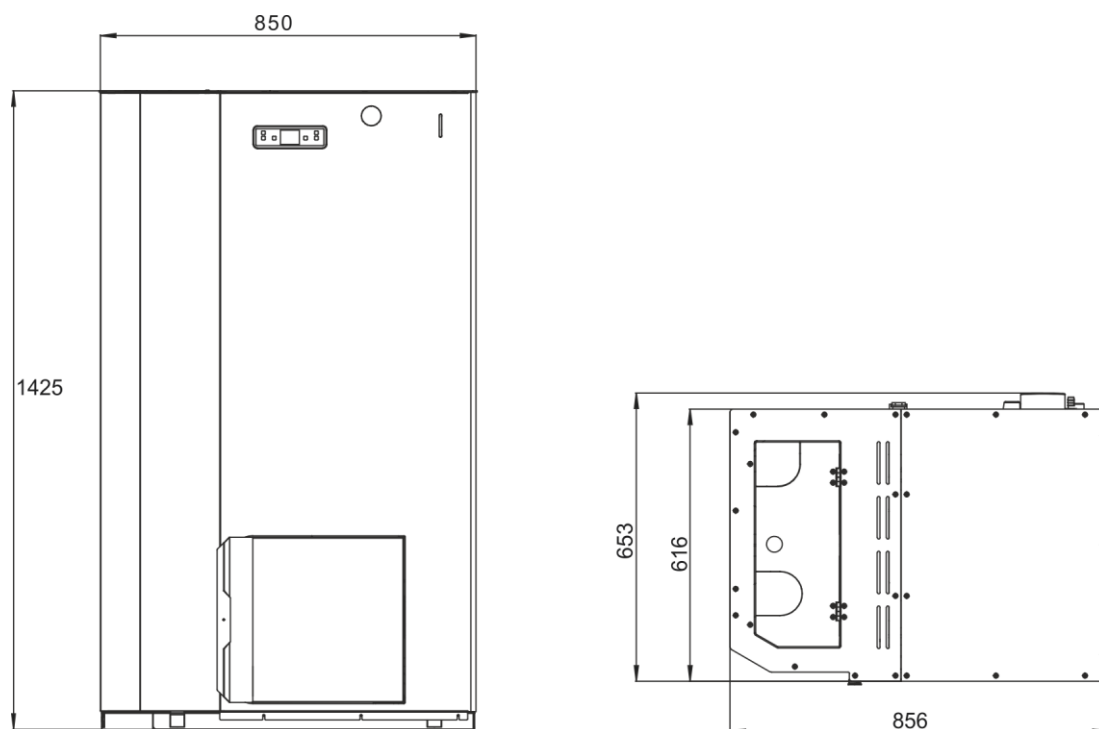


IMPORTANT! If poor combustion occurs, indicated by a significant emission of white smoke from the flue, immediately switch off the appliance and call the local Technical Service Centre to prevent condensation from spreading into the appliance.

5. DIMENSIONS

USER/INSTALLER

dimensions in mm



6. TECHNICAL DATA

USER/INSTALLER

6.1. Technical data according to the product standard PRISMA H 22 - PRISMA H 22 CS

The data shown are indicative and collected during the certification phase by a notified body under the conditions of the standard. The results are obtained with installation-specific calibration. The parameters must be adjusted by the installer. *

	PRISMA H 22	PRISMA H 22 CS	
	Rated power	Reduced power	
Thermal input	23.5		kW
Useful heat output	22	4.2	kW
Yield	93.8	90	%
CO emission at 13% O ₂	0.001	0.035	%
Smoke temperature	110	65.5	°C
Fuel consumption	4.9	1	kg/h
Hopper capacity	70		kg
Draught	14	12	Pa
Autonomy	14	70	Hours
Water content	100		l
Maximum operating pressure	3		bar
Maximum operating temperature	80		°C
Minimum volume of installation room	15		m ³
Heatable volume	575		m ³
Smoke duct diameter	100		mm
Air intake duct diameter	40		mm
Weight with packaging	260		kg
Energy efficiency class (Regulation 1185/2015)	A+		
Environmental Class according to the Italian Ministerial Decree 186	5 stars		
Product class (EN 303-5/2012)	5		
Minimum distance of combustible materials from Back/Side/Front	500/500/1000		mm
Minimum distance of combustible materials from Ceiling / Floor	800/2		mm

NOTES ON THE TECHNICAL DATA

- For the calculation of consumption, a calorific value of 4.8 kW/kg was used.
- The heatable volume is calculated considering a heat demand of 33 Kcal/m³ hour.
- The autonomy may vary depending on the characteristics of use/installation/fuel. It does not constitute a contractual obligation, nor a possible reason for dispute.
- The product can work safely even with a higher draught. However, an excessive draught may result in switch-off and/or decreased efficiency.
- * The declared results are obtained under standard conditions
- The reproduction of these conditions (subject to verification of the installation) is recommended using the PFM parameter mode.

6.2. Technical data according to the product standard PRISMA H 27 - PRISMA H 27 CS

The data shown are indicative and collected during the certification phase by a notified body under the conditions of the standard. The results are obtained with installation-specific calibration. The parameters must be adjusted by the installer. *

Quantity			
	PRISMA H 27 PRISMA H 27 CS		
	Rated power	Reduced power	
Thermal input	29.4		kW
Useful heat output	27.2	4.2	kW
Yield	92.5	90	%
CO emission at 13% O ₂	0.001	0.035	%
Smoke temperature	126.5	65.5	°C
Fuel consumption	6.1	1	kg/h
Hopper capacity	70		kg
Draught	14	2	Pa
Autonomy	11	70	Hours
Water content	100		l
Maximum operating pressure	3		bar
Maximum operating temperature	80		°C
Minimum volume of installation room	15		m ³
Heatable volume	710		m ³
Smoke duct diameter	100		mm
Air intake duct diameter	40		mm
Weight with packaging (ceramic, stone, steel)	260		kg
Energy efficiency class (Regulation 1185/2015)	A+		
Environmental Class according to the Italian Ministerial Decree 186	5 stars		
Product class (EN 303-5/2012)	5		
Minimum distance of combustible materials from Back/Side/Front	500/500/1000		mm
Minimum distance of combustible materials from Ceiling / Floor	800/2		mm

NOTES ON THE TECHNICAL DATA

- For the calculation of consumption, a calorific value of 4.8 kW/kg was used.
- The heatable volume is calculated considering a heat demand of 33 Kcal/m³ hour.
- The autonomy may vary depending on the characteristics of use/installation/fuel. It does not constitute a contractual obligation, nor a possible reason for dispute.
- The product can work safely even with a higher draught. However, an excessive draught may result in switch-off and/or decreased efficiency.
- * The declared results are obtained under standard conditions
- The reproduction of these conditions (subject to verification of the installation) is recommended using the PFM parameter mode.

6.3. Technical data for sizing the chimney system PRISMA H 22 - PRISMA H 22 CS

Quantity			
	PRISMA H 22 PRISMA H 22 CS		
	Rated power	Reduced power	
CO ₂	11,6	4	%
Smoke temperature at exhaust	132	79	°C
Minimum draught	0,01		Pa
Flue gas flow rate	14,2	7,7	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
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6.4. Technical data for sizing the chimney system PRISMA H 27 - PRISMA H 27 CS

Quantity			
	PRISMA H 27 PRISMA H 27 CS		
	Rated power	Reduced power	
CO ₂	10,8	4	%
Smoke temperature at exhaust	152	79	°C
Minimum draught	0,01		Pa
Flue gas flow rate	18,2	7,7	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
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6.5. Electrical data PRISMA H 22 - PRISMA H 22 CS

Quantity		
	PRISMA H 22 PRISMA H 22 CS	
Power supply	230	Vac
Frequency	50	Hz
Rated power consumption	102	W
Reduced power consumption	51,4	W
Power consumption in stand-by	3	W
Rated electrical power	114	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.

6.6. Electrical data PRISMA H 27 - PRISMA H 27 CS

Quantity		
	PRISMA H 27 PRISMA H 27 CS	
Power supply	230	Vac
Frequency	50	Hz
Rated power consumption	125	W
Reduced power consumption	51,4	W
Power consumption in stand-by	3	W
Rated electrical power	136	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.

6.7. ECODESIGN technical data PRISMA H 22 - PRISMA H 22 CS



Compliance with the requirements of Regulation (EU) No. 2015/1189, Annex II, Art.1
Conformità ai requisiti del Regolamento (EU) No. 2015/1189, Allegato II, Art. 1

Model: PRISMA H 22 / PRISMA H 22 ACS									
Test fuel			Nominal Heat Output			Reduced Heat Output			
GCV = GCV _{net} x (1-M)	18,882	kJ/kg	Fuel Consumption	4,91	kg/h	Fuel Consumption	0,95	kg/h	
GCV _{net}	20,26	kJ/kg	Heat Input GCV	25,8	kW	Heat Input GCV	5,0	kW	
M	6,8	%	Nominal Heat output	22,0	kW	Nominal Heat output	4,2	kW	
Stand-by			EI consumption			EI consumption			
EI consumption	2,88	W	η GCV	85,4	%	η GCV	84,3	%	
			Nominal Heat Output - Emissions			Reduced Heat Output - Emissions			
			CO - 10% O ₂	16	mg/Nm ³	CO - 10% O ₂	438	mg/Nm ³	
			OGC - 10% O ₂	0,8	mg/Nm ³	OGC - 10% O ₂	7,0	mg/Nm ³	
			NOX - 10% O ₂	158	mg/Nm ³	NOX - 10% O ₂	177	mg/Nm ³	
			DUST - 10% O ₂	13,5	mg/Nm ³	DUST - 10% O ₂	16,9	mg/Nm ³	
			E _{s,n} - CO - 10% O ₂	2,4	mg/Nm ³	E _{s,n} - CO - 10% O ₂	372,3	mg/Nm ³	
			E _{s,n} - OGC - 10% O ₂	0,1	mg/Nm ³	E _{s,n} - OGC - 10% O ₂	6,0	mg/Nm ³	
			E _{s,n} - NOx - 10% O ₂	23,7	mg/Nm ³	E _{s,n} - NOx - 10% O ₂	150,5	mg/Nm ³	
			E _{s,n} - DUST - 10% O ₂	2,0	mg/Nm ³	E _{s,n} - DUST - 10% O ₂	14,4	mg/Nm ³	
Summary data - EEI & Es									
EEI - Index of Energy Efficiency			EEI Classification			Es - Seasonal Emissions			
F(1)	3	%	A+++	≥ 150	%	E _s - CO - 10% O ₂	375	mg/Nm ³	
F(2)	2,3	%	A++	≥ 125	%	E _s - OGC - 10% O ₂	6,1	mg/Nm ³	
F(3)	0	%	A+	≥ 98	%	E _s - NOX - 10% O ₂	174	mg/Nm ³	
η _{SON}	84,5	%	A	≥ 90	%	E _s - OGC - 10% O ₂	16,4	mg/Nm ³	
η _S	79,2	%	B	≥ 82	%	EEI - Es limits from 2020			
EEI	117,2	%	C	≥ 75	%	η _S	>77%	P	
A+			D	≥ 36	%	E _s - CO - 10% O ₂	<500 mg/Nm ³	P	
			E	≥ 34	%	E _s - OGC - 10% O ₂	<20 mg/Nm ³	P	
			F	≥ 30	%	E _s - NOX - 10% O ₂	<200 mg/Nm ³	P	
			G	≥ 30	%	E _s - OGC - 10% O ₂	<40 mg/Nm ³	P	

The product meets the requirements for energy efficiency and emission limits in accordance with Regulation (EU) No. 2015/1189, Annex II, Art.1, and the requirements of § 4.4 - EN 303-5:2012. Refer to the CS20-0055014-01 Test Report, which forms an integral part of this document for test sheets and standard proofs.

6.8. ECODESIGN technical data PRISMA H 27 - PRISMA H 27 CS



Compliance with the requirements of Regulation (EU) No. 2015/1189, Annex II, Art.1
Conformità ai requisiti del Regolamento (EU) No. 2015/1189, Allegato II, Art. 1

Model: PRISMA H 27 / PRISMA H 27 ACS									
Test fuel			Nominal Heat Output			Reduced Heat Output			
GCV = GCV _{inf} x (1-M)	18,882	kJ/kg	Fuel Consumption	6,15	kg/h	Fuel Consumption	0,95		kg/h
GCV _{inf}	20,26	kJ/kg	Heat Input GCV	32,3	kW	Heat Input GCV	5,0		kW
M	6,8	%	Nominal Heat output	27,2	kW	Nominal Heat output	4,2		kW
Stand-by			EI consumption			EI consumption			
EI consumption	2,88	W	η GCV	84,3	%	η GCV	84,3		%
			Nominal Heat Output - Emissions			Reduced Heat Output - Emissions			
			CO - 10% O ₂	17	mg/Nm ³	CO - 10% O ₂	438		mg/Nm ³
			OGC - 10% O ₂	0,8	mg/Nm ³	OGC - 10% O ₂	7,0		mg/Nm ³
			NOX - 10% O ₂	163	mg/Nm ³	NOX - 10% O ₂	177		mg/Nm ³
			DUST - 10% O ₂	13,6	mg/Nm ³	DUST - 10% O ₂	16,9		mg/Nm ³
			E _{s,n} - CO - 10% O ₂	2,6	mg/Nm ³	E _{s,n} - CO - 10% O ₂	372,3		mg/Nm ³
			E _{s,n} - OGC - 10% O ₂	0,1	mg/Nm ³	E _{s,n} - OGC - 10% O ₂	6,0		mg/Nm ³
			E _{s,n} - NOx - 10% O ₂	24,5	mg/Nm ³	E _{s,n} - NOx - 10% O ₂	150,5		mg/Nm ³
			E _{s,n} - DUST - 10% O ₂	2,0	mg/Nm ³	E _{s,n} - DUST - 10% O ₂	14,4		mg/Nm ³
Summary data - EEI & Es									
EEI - Index of Energy Efficiency			EEI Classification			Es - Seasonal Emissions			
F(1)	3	%	A+++	≥ 150	%	E _s - CO - 10% O ₂	375		mg/Nm ³
F(2)	2,2	%	A++	≥ 125	%	E _s - OGC - 10% O ₂	6,1		mg/Nm ³
F(3)	0	%	A+	≥ 98	%	E _s - NOX - 10% O ₂	175		mg/Nm ³
η _{SON}	84,3	%	A	≥ 90	%	E _s - OGC - 10% O ₂	16,4		mg/Nm ³
η _S	79,1	%	B	≥ 82	%	EEI - Es limits from 2020			
EEI	117,1	%	C	≥ 75	%	η _S	>77%		P
A+			D	≥ 36	%	E _s - CO - 10% O ₂	<500 mg/Nm ³		P
			E	≥ 34	%	E _s - OGC - 10% O ₂	<20 mg/Nm ³		P
			F	≥ 30	%	E _s - NOX - 10% O ₂	<200 mg/Nm ³		P
			G	≥ 30	%	E _s - OGC - 10% O ₂	<40 mg/Nm ³		P

The product meets the requirements for energy efficiency and emission limits in accordance with Regulation (EU) No. 2015/1189, Annex II, Art.1, and the requirements of § 4.4 - EN 303-5:2012. Refer to the CS20-0055014-01 Test Report, which forms an integral part of this document for test sheets and standard proofs.

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

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.

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. 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.

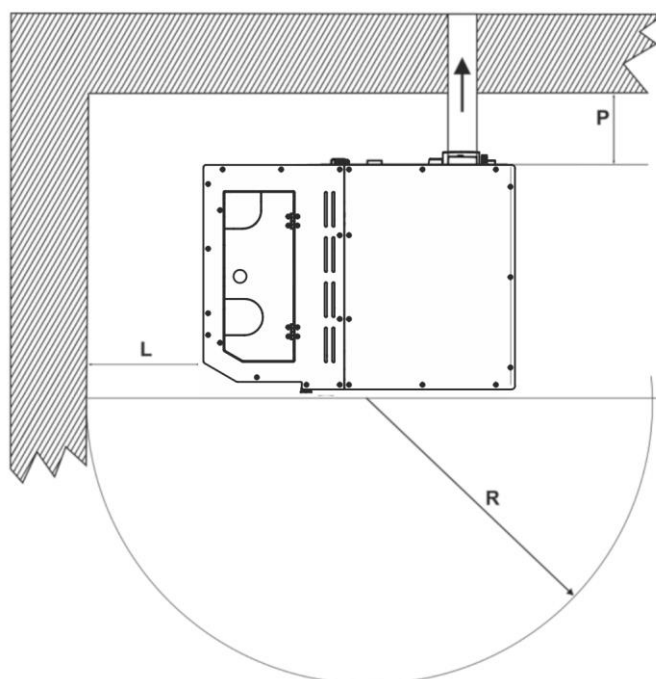
This manual is in no way to be considered as a replacement for current regulations.

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.

8.5. Minimum safety and maintenance distances

The following figures show the minimum safety distances that must always be guaranteed.

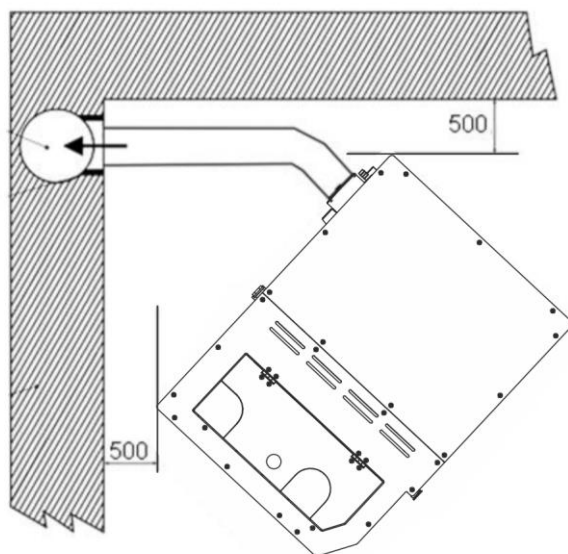


Wall installation (mm)

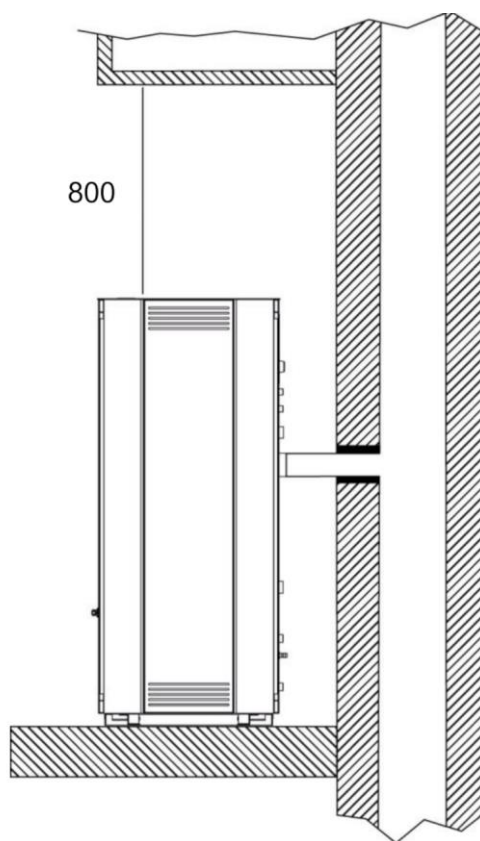
Q: Minimum distance from rear wall: 500 mm

L: Minimum distance from side wall: 500 mm

A: Minimum front distance from flammable material: 1000 mm

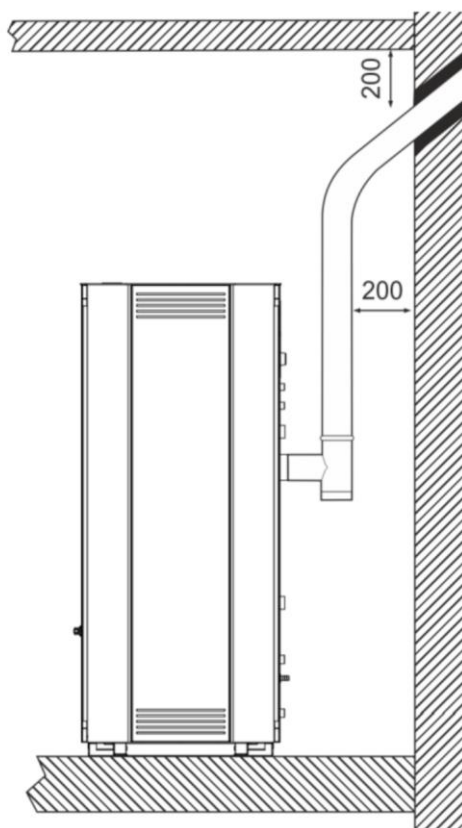


Corner installation (mm)



Distance from ceilings or false ceilings (mm)

Mandatory minimum distance from flammable material and ceiling for maintenance **H= 800 mm**

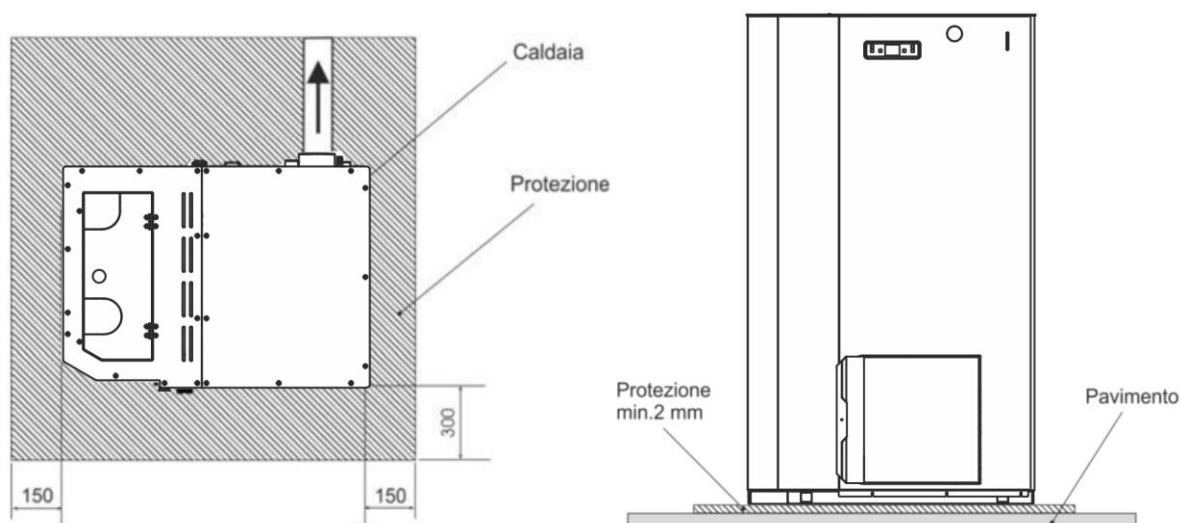


Distance of the flue gas exhaust system from flammable walls (mm)

8.6. Floor protection

If the flooring is of high quality or sensitive to heat, moisture or flammable, it is necessary to use a floor protection (e.g. steel sheet, marble or tiles).

Regardless of the type of protection used, it must protrude at least 300 mm from the front and at least 150 mm from the sides of the appliance, it must be able to withstand the weight of the appliance and it must be at least 2 mm thick.



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.

8.9. 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 80 cm² (diameter 10 cm).

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.

8.15. Electrical connection

Place the socket in an easily accessible position.

Voltage variations greater than 10% may compromise operation.

The electrical system must be in accordance with current regulations; in particular, check the efficiency of the earthing system.



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.



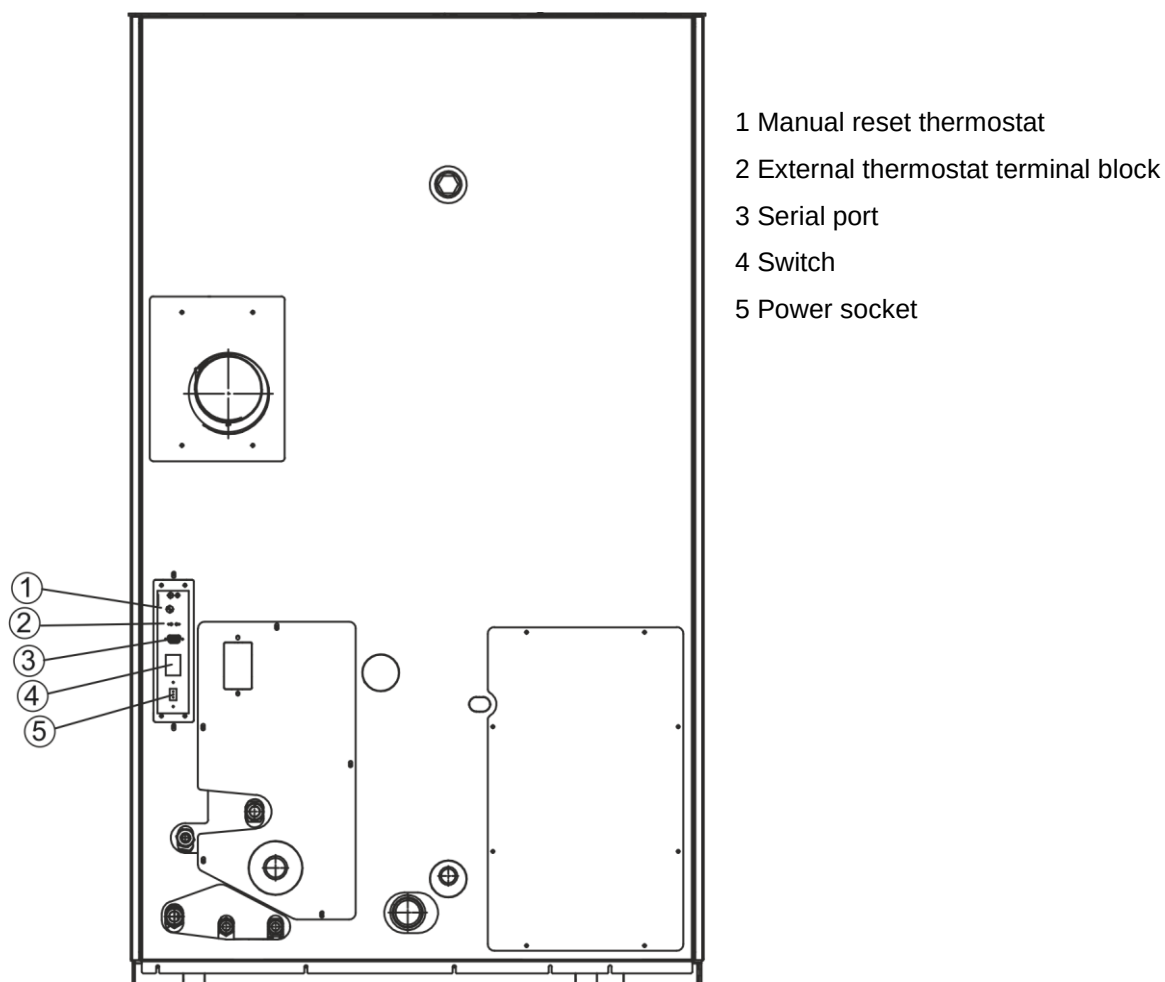
AVOID CONTACT BETWEEN THE POWER CABLE AND HOT PARTS OR THE EXHAUST PIPE.

9. Electrical connection

The appliance is supplied with a power cable that must be connected to a 230V 50Hz socket.

By law, the system must be provided with earthing and a residual current device.

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



ATTENTION: make sure that the electrical plug remains accessible even after the installation of the appliance

11. HYDRAULIC INSTALLATION

INSTALLER

11.1. 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

11.2. 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.

11.3. 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.

	ATTENTION: 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.
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	ATTENTION: 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.
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When this appliance 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 dissipation of the minimum output power delivered by the appliance must always be guaranteed.

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 appliance 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.

	ATTENTION: Always install a pressure reducer
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11.4. 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 from the appliance safety valve must be connected to a drain funnel.

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

It is recommended to fill the system to a pressure of 1.0 - 1.2 bar (the pressure is displayed on the appliance with the symbol "b"); the appliance can still operate at a pressure between 0.6 and 2.5 bar before triggering an alarm.

If installed in rooms where the temperature may fall below 0°C, it is necessary to add a suitable antifreeze to the system, as the appliance does not have an automatic antifreeze system.

11.5. 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



ATTENTION: In the case of water with a pH >8 , aluminium gaskets must not be used

With domestic hot water production

If the water hardness of the household supply is high (above 15°f), **it is mandatory to install a water softening system and a filter upstream**.

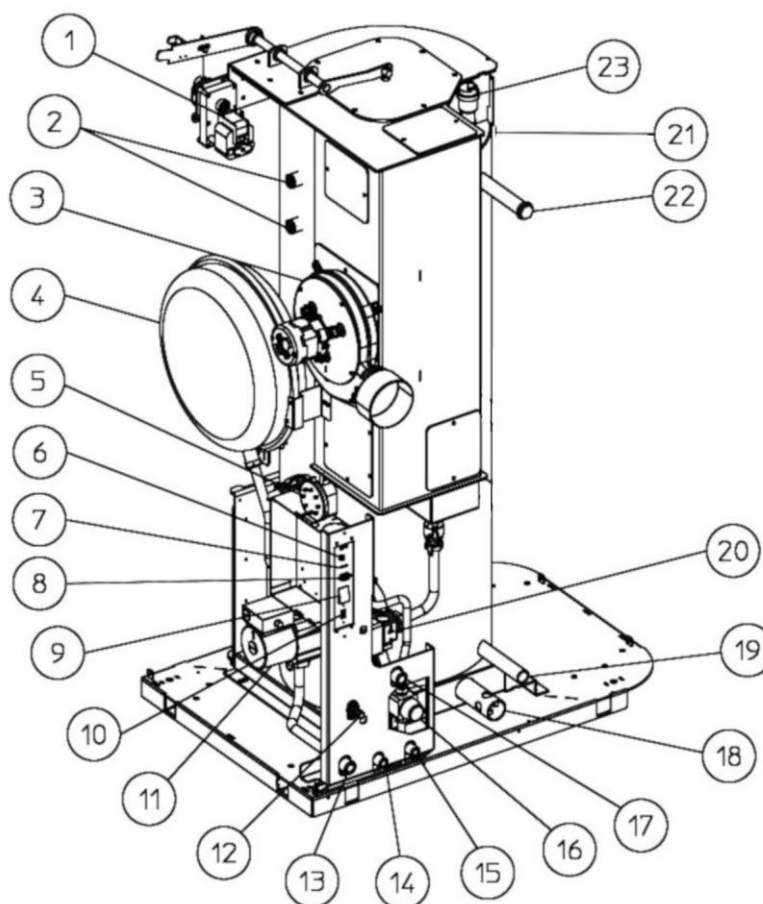
Make sure that the micron rating of the filter and softener are compatible.

If the water hardness is below 15°f, it is sufficient to install a polyphosphate dosing unit

It is recommended to have the heat exchanger serviced annually to remove limescale and mineral deposits

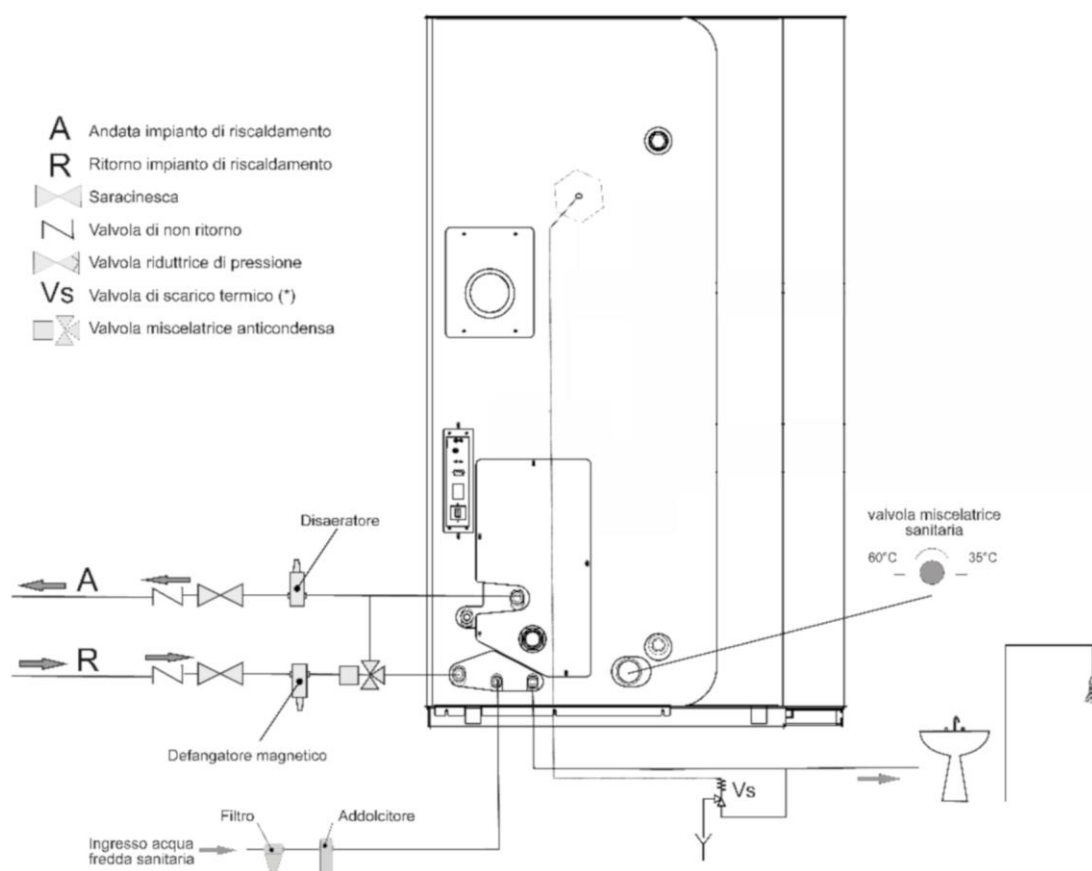
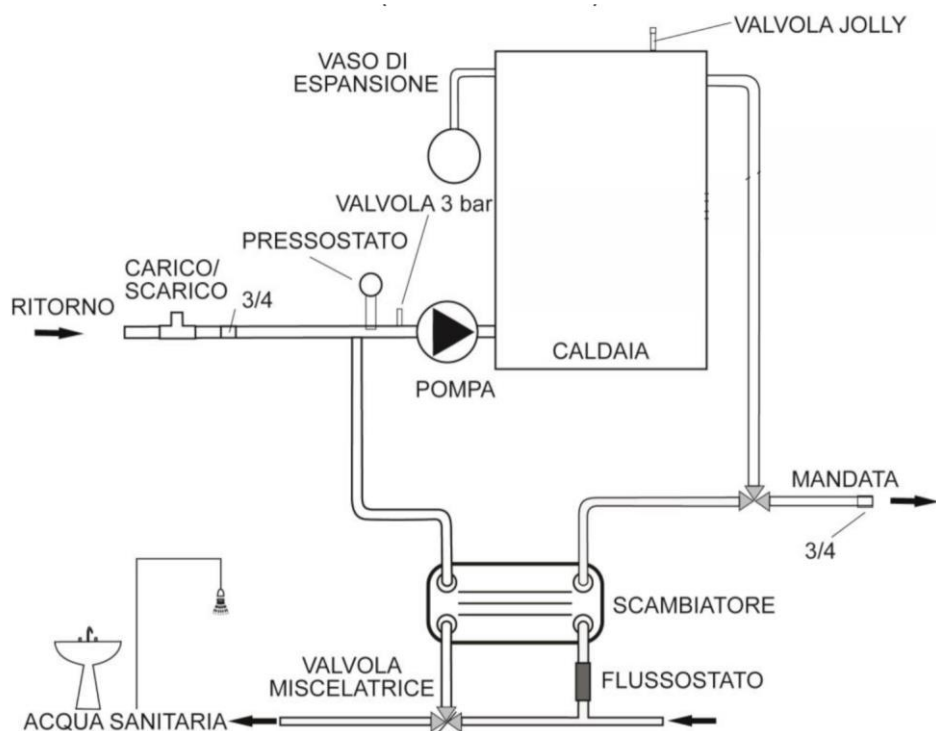
It should be noted that limescale encrustations drastically reduce performance due to their very low thermal conductivity.

11.6. Diagram



1	Turbulator cleaning motor	13	System return
2	Probe pocket	14	DHW inlet
3	Smoke extractor	15	DHW outlet
4	Expansion vessel	16	DHW mixing valve
5	Pressure sensor	17	System delivery
6	Manual reset	18	Primary air inlet
7	Room thermostat terminal	19	Auxiliary IN/OUT
8	Serial port	20	3-way valve
9	Main switch	21	Magnesium anode
10	Power supply socket	22	Auxiliary IN/OUT
11	Circulator	23	Automatic air vent
12	Safety vent		

11.7. Indicative hydraulic diagram (Version with ACS)



11.8. External thermostat installation

The operation of the appliance must be controlled by an external room thermostat connected to the electronic control board (see wiring diagram).

The thermostat is connected using a 2x0.5 mm² cable; the contact to be used is of the NO (Normally open) type.

This operation must be performed by specialised personnel.

The connection of unsuitable thermostats may cause irreparable damage to the electronic control board.

At the back of the appliance there is a terminal block where the desired connection can be made.

Multiple external contacts can be connected in parallel (for example, contacts relating to two separate zone valves).

12. 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.

12.1. 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.

13. 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.

13.1. 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)

13.2. 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.

13.3. USE

The appliance is designed to work 24 hours a day 365 days a year and to always keep the water inside it above 70°C, so that it is always ready to meet the heat demands for space heating or domestic hot water production.

This will not result in continuous pellet consumption, as the appliance self-regulates according to the heat demands of the connected users.

Therefore, for correct operation, the operating parameters and setup must be correctly configured.

Below are the essential points that must be correctly configured:

- **Heat demand from the domestic heating system must be generated by the external thermostat contact closing; therefore, a room thermostat installed inside the home must be connected.**

- **The appliance must be set to power level 5 and the water temperature must be set to 70°C.**

With these settings, the operating periods will be controlled directly by the room thermostat installed inside the home, while domestic hot water production will be automatically guaranteed by the appliance throughout the 24 hours.

Although available, it is not recommended to activate the appliance's on/off programming, leaving shutdown control to the home's programmable thermostat instead.

- All local regulations, including those relating to National and European Standards, must be complied with when installing the appliance. Non-compliant installations or improper use of the appliance may invalidate the warranty.
- Do not use the appliance as an incinerator or in any way other than that for which it was designed.
- No fuel other than wood pellets must be used. Do not use liquid fuels.
- During operation, the appliance, especially its external surfaces, reaches high temperatures to the touch; handle with care to avoid burns.
- Do not carry out any unauthorised modifications to the appliance. Only use original spare parts recommended by the Manufacturer.
- Make sure that there is sufficient ventilation in the room where the appliance is installed.
- Make sure that all joints of the flue gas exhaust system are hermetically sealed with non-setting, heat-resistant (250°C) silicone (non-cementitious) and are not deteriorated.
- Periodically check (or have checked) the cleanliness of the flue gas exhaust system.



ATTENTION: keep all flammable materials well away from the appliance during operation (MINIMUM DISTANCE: 100 cm from the front wall).



ATTENTION: to prevent fumes from escaping, the combustion chamber must be kept closed, except during cleaning operations, which must be performed with the appliance switched off.



ATTENTION: when adding more pellets while the appliance is on, make sure that the pellet supply is not finished and that the flame is always present in the burn pot; if the flame is extinguished, dense white smoke may form, which could cause an explosion in the combustion chamber.

The explosion can be of such intensity as to shatter the fire door glass.

Therefore, never stand in front of the appliance during the ignition phase if the fuel releases dense smoke.

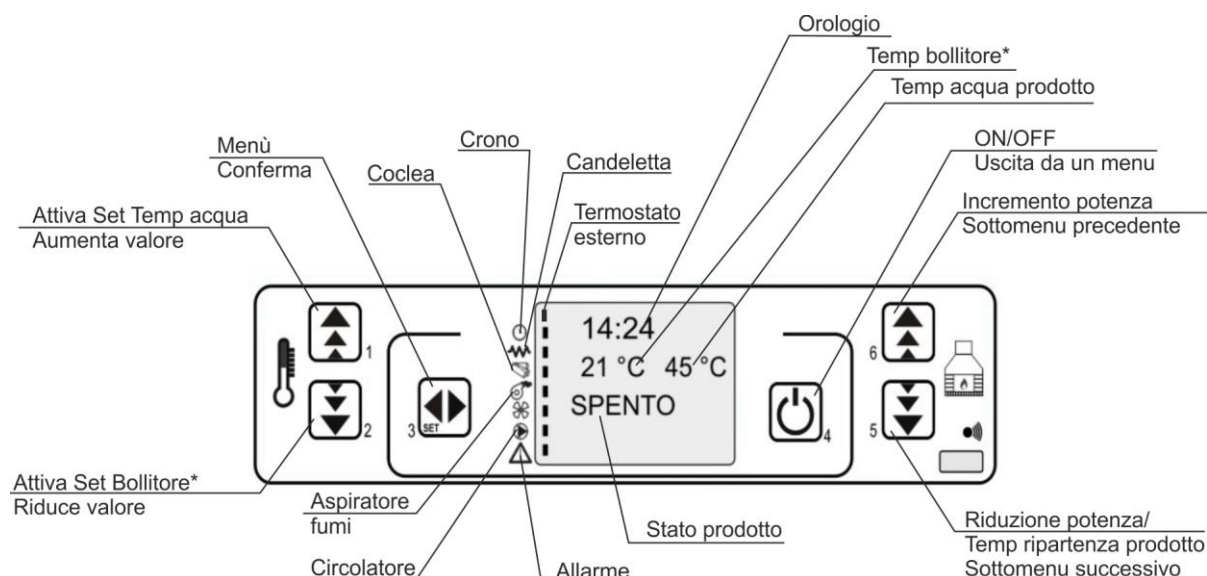
In any case, the appliance is equipped with all necessary safety systems to minimise the risk of glass breakage.

	ATTENTION: do not allow the fuel bag to come into contact with hot surfaces.
	ATTENTION: remove any unburnt pellet deposits caused by failed ignition attempts before restarting the product.
	ATTENTION: if, during the ignition phase, ignition does not occur and a large amount of smoke is visible in the combustion chamber, switch off the appliance immediately and replace the pellets in use, as they may have excessive moisture content. Persisting with ignition attempts could make the appliance dangerous.
	ATTENTION: if, during cleaning, spongy and hard pellet residues (not ash) are found, replace the pellets used, as they may derive from poor-quality sawdust waste unsuitable for this type of appliance. Persisting may lead to fire or heavy smoke production in the flue.
	ATTENTION: check that pellet combustion in the burn pot is correct. If unburnt pellet accumulation is observed, SWITCH OFF the appliance IMMEDIATELY and contact the Service Centre.
	ATTENTION: pay the utmost attention in the presence of children - prevent them from standing in front of the product.

13.4. Console description

The console displays information relating to the operating status of the appliance. 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 same indications can take on different meanings according to their position on the display.



*** Function active only if a probe measuring the temperature of an external boiler has been connected**

The meaning of the status indicators located on the left-hand side of the display is described below.

If one of the segments in the "status" area on the display lights up, it indicates the activation of the corresponding device, according to the following list:

SYMBOL/LED		MEANING
	Chrono LED	The LED lights up if the programmable thermostat is activated, i.e. if the user parameter 04-1-01 (chrono enable) is set to a value other than OFF
	Glow plug LED	The LED lights up when the glow plug is powered
	Auger on LED	The LED lights up during the time intervals in which the pellet auger is operating
	Flue fan LED	The LED lights up when the flue gas fan is on
	Pump on LED	The LED lights up when the pump/circulator is operating
	Alarms LED	The LED lights up when the appliance enters an alarm condition

13.5. Display key functions

	SYMBOL/LED	KEY	FUNCTIONS
TEMPERATURE 		PARAMETER ADJUSTMENT (INCREASE)	Access to the water temperature setting mode of the appliance In temperature setting mode, it increases the set value In technical parameter setting mode, it increases the set value
		PARAMETER ADJUSTMENT (DECREASE)	Access to the external boiler temperature setting mode (only on some versions) In temperature setting mode, it decreases the set value In technical parameter setting mode, it decreases the set value
		MENU SELECTION	Access to sub-menus Access to programmable thermostat and clock programming Access to technical parameter programming.
		ON/OFF	Manual switching on and off of the appliance Exit from a sub-menu Exit from the lock or alarm status (with transition to OFF state)
POWER 		POWER REDUCTION	Reduction of the set power value Return to previous sub-menu Access to the appliance restart temperature setting mode (only on some versions)
		POWER INCREASE	Increases the set power value Access to the next sub-menu

13.6. 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.

Also check that the hydraulic system has a sufficient expansion vessel to ensure maximum safety.

Please note that expansion is calculated as 10% of the total volume contained in the system.

Any damage relating to the system or appliance will not be covered under warranty.

The presence of the expansion vessel installed on the appliance does not guarantee adequate protection against thermal expansion of the system water.

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).

13.7. 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 display.

13.8. Starting the appliance

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 display 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 display 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 display.

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

13.9. 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 display 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 (4).

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. 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
---	---

13.10. 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 display:

- 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 "6".
- **Set the programmable thermostat parameters** (see the corresponding section below).
- **Set the desired appliance water temperature** within a range of 30°C to 80°C. Press key "1" once and then use keys "1" and "2" to increase and decrease the temperature, respectively.
- **Display the hydraulic circuit pressure by pressing and holding key 5.**

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.

13.11. 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 water temperature, press key "1".

By pressing key "1" once, "WATER TEMP SETTING" will appear at the bottom of the display, while the current set temperature appears at the top of the display.

To change this value, press 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 "4" 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, the appliance gradually reduces the power level.

The last line of the display 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 display.

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

The display will first show the message "WAITING TO COOL" and then the message "ECO STOP" when the appliance enters the actual standby phase.

13.12. Circulator

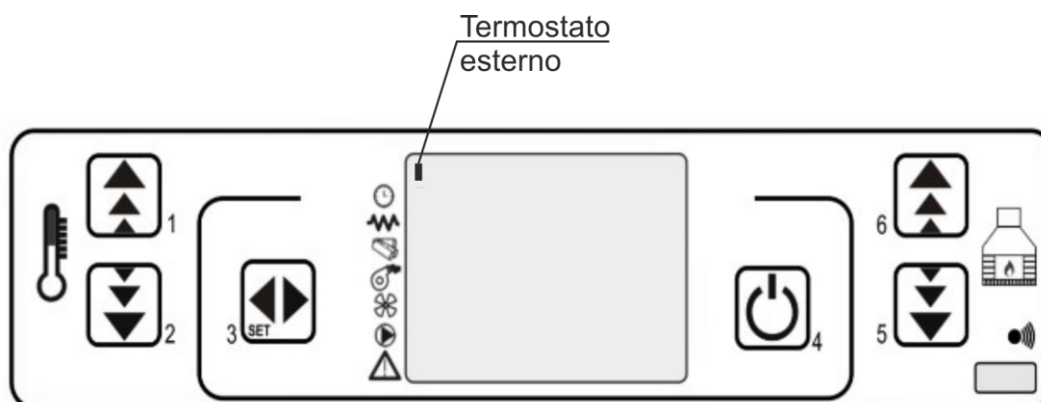
In this model, there is a circulator for the direct connection of the appliance to the heating system.

The circulator is enabled to operate when the water in the appliance exceeds the set value.

Above this temperature, it operates according to the heat demand from the external room thermostat.

The circulator starts when at least one of the room thermostats connected to the dedicated terminal block is active (contact closed)

13.13. External thermostat



If at least one external thermostat is active (contact closed), the appliance pump starts, supplying the heating system, and the water temperature inside it will begin to drop until it reaches the set restart threshold (70°C).

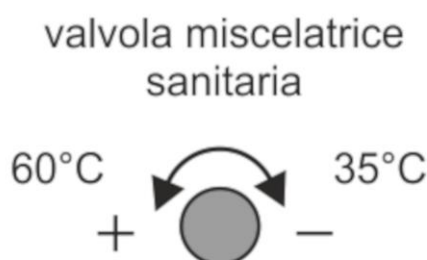
When this threshold is reached, the appliance will automatically turn on to meet the system's power demand.

When the power demand is satisfied, the external thermostat will reopen and the pump will stop immediately, and as soon as the water temperature in the appliance exceeds the set threshold, the appliance will enter modulation mode and will remain in this state until the next temperature threshold (78°C) is reached, where the standby function intervenes, switching the appliance off.

13.14. Domestic hot water production

The appliance may have built-in domestic hot water production

DHW is produced by means of a plate heat exchanger, which is connected upstream to a flow switch controlling the appliance and downstream to a mixing valve to regulate the hot water outlet temperature between 35°C and 60°C.



At the back of the appliance, the mixing valve knob can be accessed to adjust the DHW outlet temperature.

During normal operation, if the water temperature is below 72°C (a value that can be set by means of a technical parameter), a demand for domestic hot water causes the appliance to operate at maximum power

If the appliance is in standby mode ("ECO STOP"), it will remain off until the water temperature falls below the set value, after which it will restart automatically

13.15. 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 display, 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.

13.16. 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 display, 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.

As during burn pot cleaning, the mechanical cleaning of the flue and burn pot is also activated



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

13.17. 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.

13.18. Additional functions

13.18.1. External storage tank

If the appliance is connected to an external storage tank, its temperature can be monitored via an auxiliary probe. (this function can be activated by an authorised Technical Service Centre).

When this function is active, by pressing key 2, the message "STORAGE SETTING" will appear on the display and the desired temperature for the storage tank can be set between 40 and 80°C.

When the water drops by 2°C (value settable by the authorised Technical Service Centre) with respect to the "STORAGE SETTING", the message "EXTERNAL REQUEST" will appear on the display and the appliance resumes heating the storage tank.

14. MENU

USER/INSTALLER

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.

14.1. 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

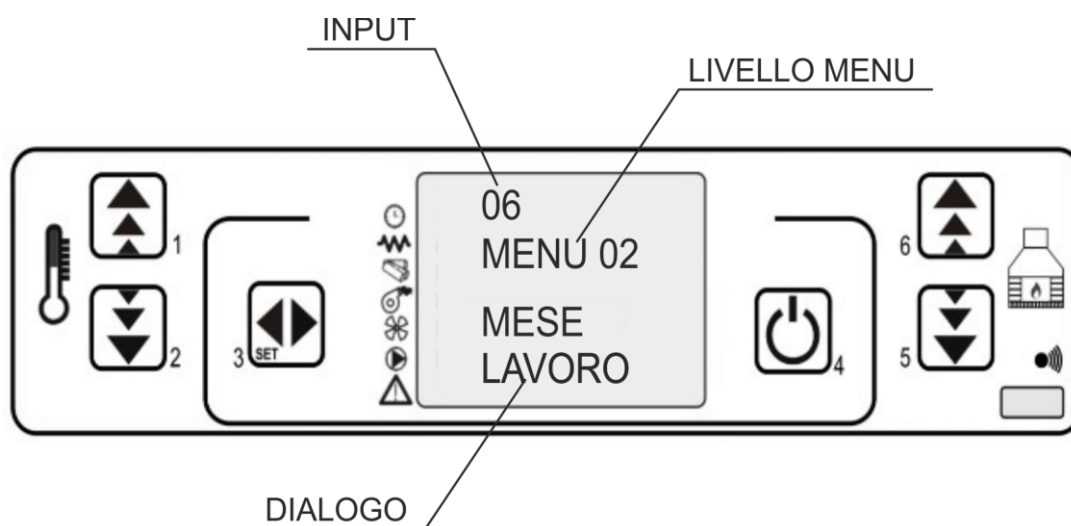
14.2. Menu 02 "CLOCK SETTINGS"

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)



14.3. 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.

14.3.1. 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.

14.3.2. Menu 3-2 "DAILY PROGRAM"

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

After setting the first parameter M-3-2-01 "DAILY CHRONO" to "On", it is possible to set 2 daily ignitions and 2 shutdowns.

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

14.4. 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 "to" on ", it is possible to set the 4 ignitions and 4 shutdowns.

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.

14.5. Menu 3-4 "WEEKEND PROGRAM"

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

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

The programs will only be active on Saturdays and Sundays.

RECOMMENDATION: in order to avoid confusion and unwanted ignition and shutdown 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.

14.6. Menu 04 "LANGUAGE SELECTION"

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

14.7. Menu 06 "BUZZER MODE"

When it is set to "off", it disables the audible signal in the event of an alarm.

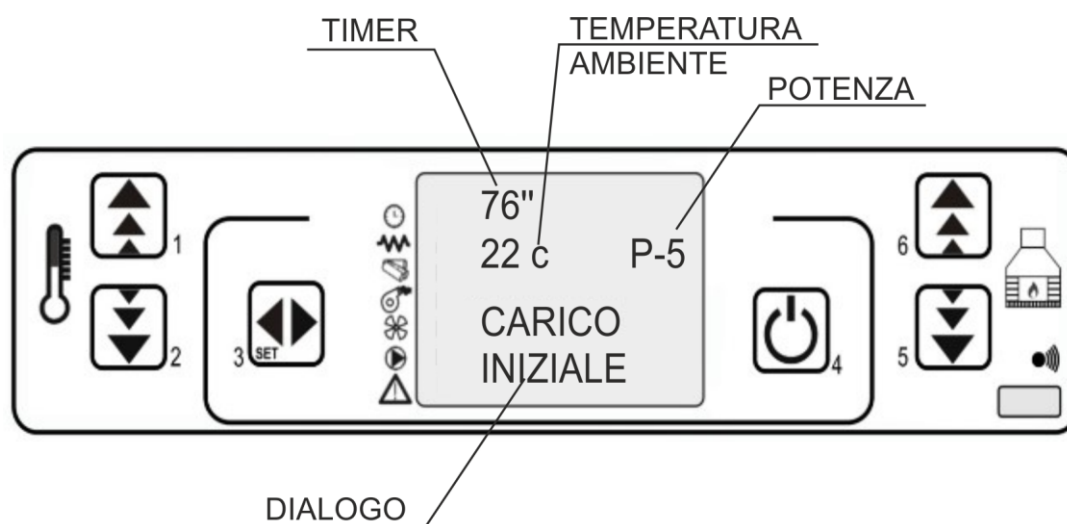
When it is set to "on", an audible signal will be activated when an alarm is triggered.

14.8. Menu 07 "INITIAL LOAD"

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

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

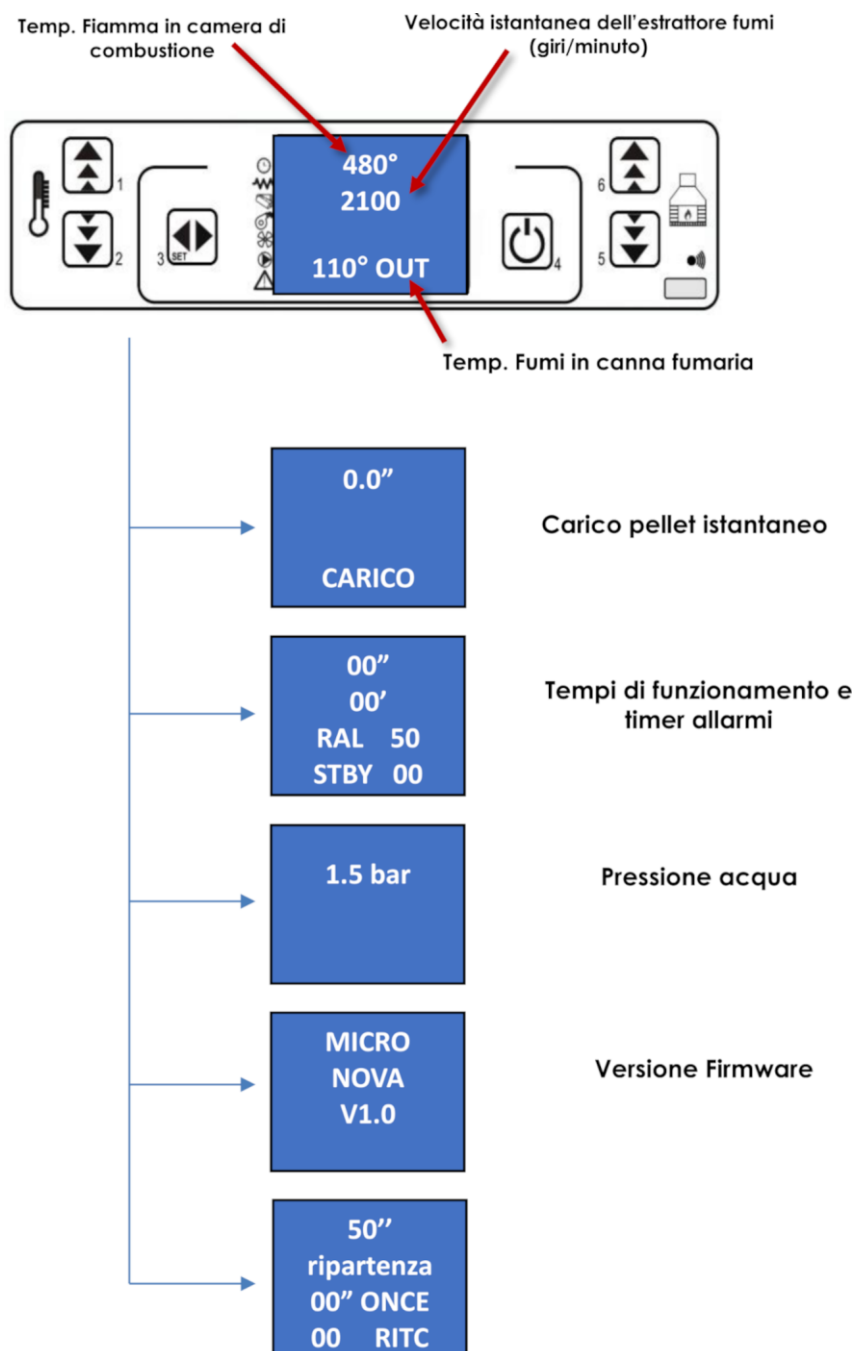
Once the pre-load is complete, remove the pellets from the burn pot.



14.9. Menu 08 "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.



14.10. Menu 09 "TECHNICIAN CALIBRATIONS"

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

14.11. Menu 10 "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%

14.12. Menu 11 "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%.

14.12.1. Standby restart

This parameter allows you to choose between 2 different operating modes of the appliance.

H20:

The burner ignites when the water temperature in the appliance drops by 1°C compared to the value set in "WATER SETTING".

When using the appliance in this mode, its internal storage always remains hot at a temperature between 70°C and 80°C.

In this way, it is able to guarantee instantaneous domestic hot water at all times.

This setting is recommended for appliances that have built-in domestic hot water production

TBTA:

The burner ignites only when the programmable thermostat contact closes.

By using the appliance in this mode, the internal storage can cool and therefore instantaneous domestic hot water is not guaranteed

This setting is only recommended for appliances that do not have built-in domestic hot water production

14.13. Menu 13 "ADVANCED FUNCTIONS"

14.13.1. External boiler probe

This parameter allows you to activate an auxiliary probe to monitor an external storage tank.

When this parameter activated, pressing key 2 on the display shows the **DHW Setting**, which is used to set the desired temperature of the external storage tank.

When the water drops by -2°C (parameter 05) with respect to the Set value, the message **EXTERNAL REQUEST** appears on the display and the appliance supplies heat.

A dedicated pump can be used with this function, connected via the auxiliary pipes.

This pump must be connected to the **AUX CN2** terminal and the parameter **M-9-03-00 TRIACAUX** must be set to **DHW**



14.14. Menu 14 "PERFORMANCE MODE"

This menu is intended for specialised technical personnel.

15. 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

15.1. Daily maintenance

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

A suitable vacuum cleaner is required.

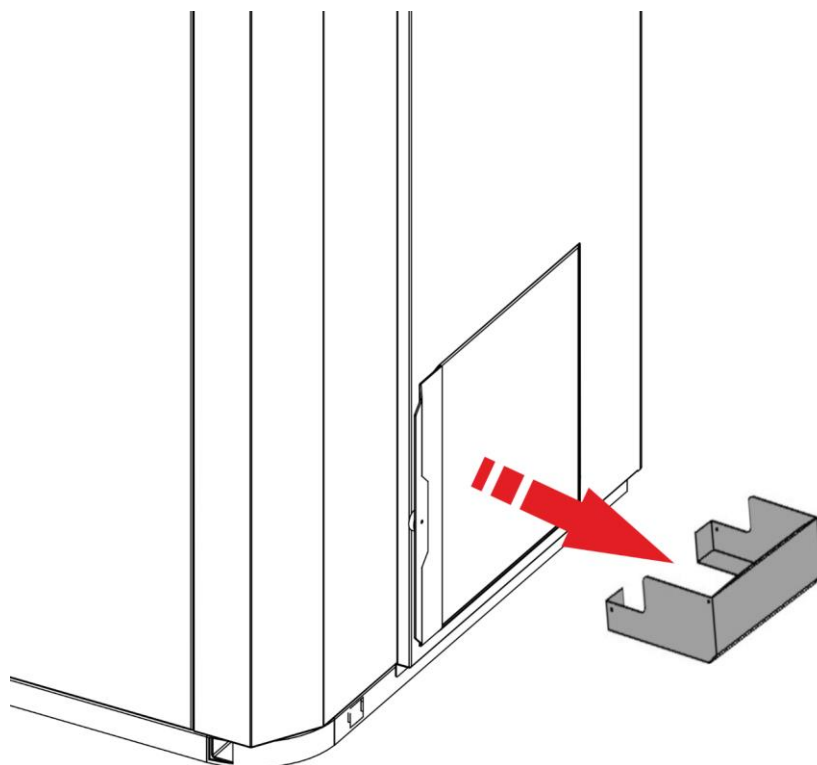
The entire procedure takes a few minutes.

15.2. 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.

15.3. Cleaning the ash drawer



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

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 a non-combustible base or on the ground, well away from combustible materials.



ATTENTION: Ash can retain live embers for a long time!

15.4. 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 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 during the first few uses or when using different quality pellets.

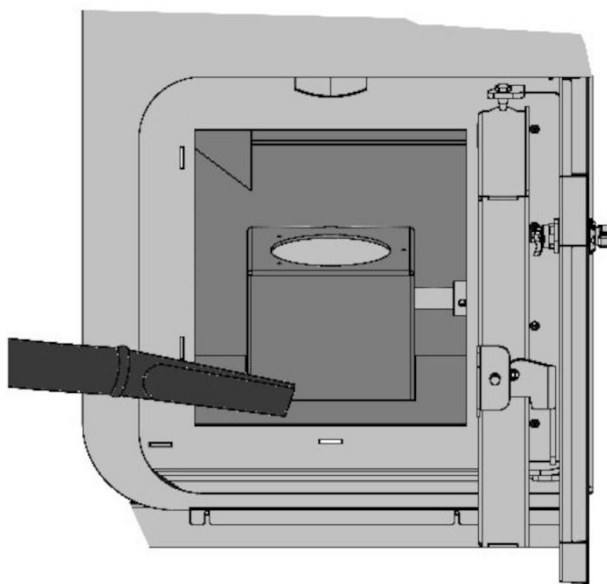
The frequency of this operation depends on how often the stove is used and the type of fuel.

Also check the burn pot support, removing any ash deposits.



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

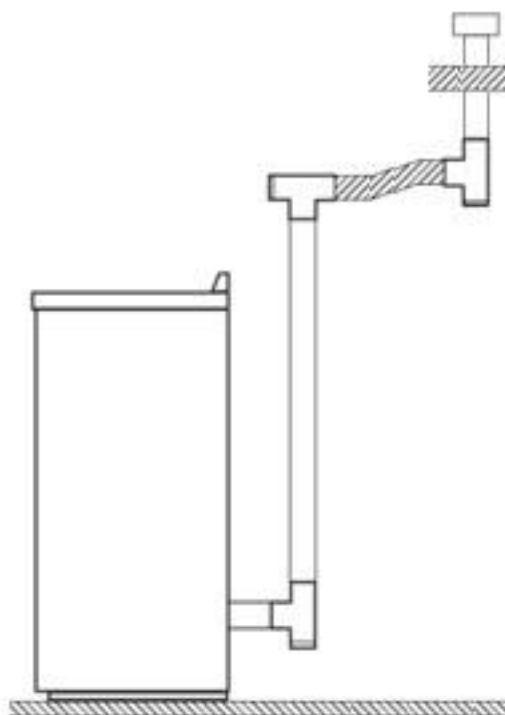
15.5. Cleaning the combustion chamber



Clean the combustion chamber weekly by vacuuming the ash that accumulates inside it.

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

15.6. Flue chamber cleaning



Flue chamber cleaning is automatic via the movement of the turbulator group located in the flue chamber. Then, once a year (preferably at the start of the season), for the proper operation of the appliance, the flue chamber must be cleaned more thoroughly; the frequency of this operation depends on the type of pellet used and how often the appliance is used.

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

15.7. 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.

15.8. Cleaning the metal and ceramic parts

To clean the metal parts of the appliance, use a soft cloth dampened 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 appliance.

15.9. 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.

15.10. Glass breakage

The appliance is equipped with 5 mm thick ceramic glass, capable of withstanding thermal shocks up to 750°C; the 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.

15.11. Cleaning the smoke extractor

INSTALLER



ATTENTION: All cleaning and/or maintenance operations must be performed with the power switched off

The appliance is equipped with a smoke extractor, located at the back.

Any dust or ash deposits on the smoke extractor blades can cause imbalance and noise during operation; therefore, it is necessary to clean the smoke extractor at least once a year.

Since this operation involves dismantling some parts of the appliance, **only have the smoke extractor cleaned by the Technical Service Centre or by qualified personnel.**

15.12. 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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It consists of general internal and external cleaning.

Remember that seasonal maintenance by a qualified technician, and according to national and local regulations, is necessary.

	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.
---	--

15.13. Routine and extraordinary maintenance

These operations should be scheduled at least annually with a Technical Service Centre and they are necessary to make sure that the appliance remains efficient and operates safely.

- Thoroughly clean the combustion chamber and heat exchanger;
- Clean the flue motor, disassemble and clean the flue gas exhaust duct, apply new silicone where required;
- Inspect and check the integrity of the seals, replace them and apply silicone where required;
- Empty out and clean the hopper;
- Check the electrical and electronic components;
- Clean and check the pipe and pressure sensor;
- Check and, if necessary, replace any components subject to wear: burn pot, heating element, ash drawers, etc.
- In models with domestic hot water production, it is recommended to have the heat exchanger serviced annually to remove limescale and mineral deposits.

15.14. 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.

15.15. Summer break

During the period of non-use, leave all doors , hatches and covers of the product closed.

We recommend removing any pellets from the hopper.

In particularly humid areas, consider disconnecting the air inlet and the smoke fitting, and insert a suitable product in the combustion chamber to absorb the moisture (e.g. dehydrating salt bags, antioxidant tablets).

15.16. 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.

15.17. Appliance inactivity

After the last use of the season, perform the following operations:

- Remove all pellets from the hopper and auger;
- Thoroughly clean the burn pot, burn pot support, combustion chamber and ash drawer;
- Thoroughly clean the flue gas exhaust system: contact a professional chimney sweep for this operation;
- Clean the area behind the internal panels, especially the fans, removing dust, cobwebs, etc.;
- Disconnect the power cable.
- Leave the fire door slightly open to prevent moisture entering the flue from oxidising the internal baffles.

16. DISPOSAL

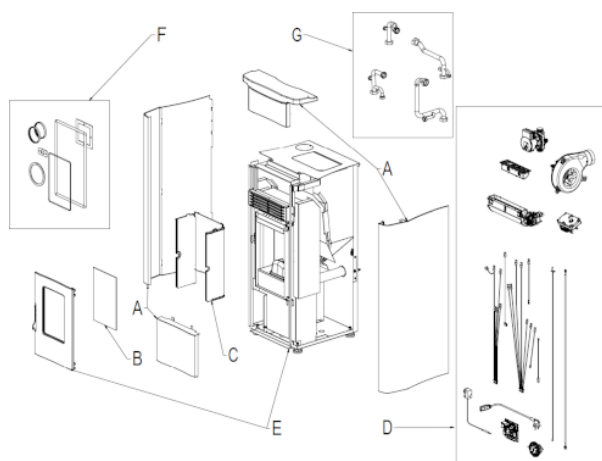
At the end of its service life, dispose of the product in accordance with current regulations.

16.1. 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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16.2. 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	

16.3. 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.



17. ADVICE FOR POSSIBLE PROBLEMS

In the event of problems, the product automatically performs the shutdown operation.

The display shows the reason (see below).

17.1. Safety devices

ATTENTION: During operation, some parts of the appliance (door, handle, ceramic parts) may reach high temperatures.

Always maintain the previously indicated safety distances, take appropriate precautions and always follow these 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.

The safety devices in the appliance are the following:

17.1.1. Flue draught pressure sensor (pressure + negative pressure)

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 blockages within the appliance, poor combustion or failure to clean the appliance annually.

When the alarm is activated, the message **"AL 8 - NO DRAUGHT"** appears on the display.

17.1.2. Appliance/structure temperature sensor

This appliance is equipped with a manual reset bulb thermostat, which prevents the water temperature in the appliance from exceeding 85°C, and a klixson contact thermostat, which protects the overall structure from reaching excessive temperatures.

Activation

The bulb thermostat intervenes if the water temperature in the appliance exceeds the 85°C threshold, while the klixson contact thermostat intervenes if the temperature of any part of the structure exceeds the same 85°C threshold.

In both situations, the electrical power supply to the auger is interrupted, thus stopping pellet feed to the burn pot and sending an alarm signal to the control board.

The message **"AL 7 - THERMAL SAFETY"** appears on the display.

17.1.3. Smoke temperature probe

The smoke probe is connected directly to the electronic control board and constantly monitors the operating temperature of the exhaust gases, allowing the appliance to be used in safe conditions.

Operation

If the smoke temperature exceeds a preset limit, the control board switches to modulation mode. The message **"MODULATE / MAX SMOKE"** appears on the display.

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 message **"AL 3 - "SMOKE TEMP"** appears on the display.

The appliance 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 display.

17.1.4. Water temperature probe

The water probe is connected directly to the electronic control board and constantly monitors the temperature of the water in the appliance, allowing the appliance to be used in completely safe conditions.

Operation

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

The message **"MODULATE"** appears on the display.

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 message **"AL A - " WATER TEMP"** appears on the display.

The appliance constantly monitors the operation of the water 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 the message **"AL 9 - " WATER PROBE"** which appears on the display.

17.1.5. Water pressure switch

The water pressure switch is directly connected to the electronic control board and constantly monitors the water pressure in the appliance, allowing it to be used safely.

Operation

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

The message **"AL b - "WATER PRESS"** appears on the display.

17.2. 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 "4" **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 (4) 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 (4) 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 (4) 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 (4) 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 (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 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 (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.
- Check and adjust the pressure level in the hydraulic circuit.
- After cleaning the burn pot, restart the appliance by pressing key 4.

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.



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