USER MANUAL

Pellet Stove

EN

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FRAME - QUASIMODO UP -MODO

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1 MANUAL SIMBOLOGY

	**USER**
	**PLEASE READ AND FOLLOW THE INSTRUCTIONS FOR USE CAREFULLY**
	**AUTHORISED TECHNICIAN (ONLY to interpret or the Stove-manufacturer or the Authorized Technician of Technical Assistance Service approved by the Stove-manufacturer)**
	**SPECIALIZED STOVE-REPAIRER**
	**CAUTION: READ CAREFULLY THE NOTE**
	**CAUTION: DANGER OR IRREVERSIBLE DAMAGE POSSIBILITY**

- The icons with the stylized figures indicates whom the subject dealt in the paragraph is addressed to (between the User and/or the Authorized Technician and/or the Specialized Stove-repairer).
- **WARNING symbols indicates an important note.**
- The User manual is an integral and complementary part of the installer manual.

2 DEAR CUSTOMER

Dear Customer,
Our products are designed and manufactured in accordance with standards in force, with high quality materials and using our extensive experience in the transformation processes.
To get the best performance, we suggest you read the instructions in this manual carefully.
This installation guide is an integral part of the product: ensure that the manual is always supplied with the appliance, even if it changes owner. If the manual is lost, you can request another copy from the local Technical Dept. or download it directly from the company's website.
All local regulations, including those referring to national and European standards, must be observed when installing the appliance. In Italy, for the installation of systems with a biomass below 35KW, refer to the Ministerial Decree 37/08 and the qualified installation technician with the suitable requirements must issue a certificate of compliance for the system installed. (By system we intend Stove+Flue+Air inlet).
Our solid bio-combustible products, (hereinafter called "Products") are designed and manufactured in compliance with one of the following European standard harmonised to Regulation (UE) no. 305/2011 for construction products:

EN 16510-1:2022 / EN 16510-2-6:2022 : "Residential space heating appliances mechanically fired by wood pellets".

The products also comply with the essential requirements of Directive **2009/125/EC (Eco Design)** and, where applicable, Directives:

2014/35/EU (LVD - Low Voltage directive)
2014/30/EU (EMC - Electromagnetic Compatibility directive)
2014/53/EU (RED - Radio Equipment directive)
2011/65/EU (ROhS)

Hereby CADEL S.r.l. declares that the radio equipment type **Easy Connect Plus + Navel Stand Alone** is in compliance with Directive 2014/53/EU.

According to (EU) No. 305/2011 regulation, the " Declaration of Performance" and "Declaration of Conformity" are available online, in the download area, at the web sites:
- www.cadelsrl.com
- www.free-point.it
- www.pegasoheating.com

Having specified the above, we highlight and report that:
- **This manual and technical data sheet, also available on our website**, bear all of the specific indications and necessary and essential information to choose the product, to install it correctly and to properly size the smoke expulsion system;
- the Products must be **installed, controlled and serviced** by a qualified operator, according to the instructions in this manual and in compliance with the laws and installation and maintenance standards in force in individual countries, so as to provide an efficient heating system, properly sized according to the needs of the home.
- **If the Products are thermally stressed**, constantly operating for several hours at high power (e.g. 3, 4 hours a day at outputs P4 or P5), we recommend more frequent cleaning and reducing the interval between routine maintenance operations according to the operating condition of the product. We furthermore point out that these operating conditions increase the risk of premature wear of the product, especially those parts exposed to the direct heat of the fire (e.g. combustion chamber), the original condition of which can undergo modifications and deterioration which, among other things, could generate noise during operation of the unit due to mechanical expansion.

The manufacturer will not be held liable if the above information is ignored.

2.1 REVISIONS TO THE PUBLICATION

The content of this manual is strictly technical and the property of CADEL S.r.l.
No part of this manual may be translated into other languages, adapted and/or reproduced, even in part, in other mechanical and/or electronic form or media, for photocopies, recordings or other, without the prior written authorisation of CADEL S.r.l.
The company reserves the right to make changes to the product at any time without prior notice. The owner company reserves its rights according to law.

2.2 CARE OF THE MANUAL AND HOW TO CONSULT IT

- Take care of this manual and store it in an easily and quickly accessible place.
- Should this manual be lost or destroyed, request a copy from your retailer or directly from the authorised Technical assistance department. It can also be downloaded from the company's website.
- **"Bold text"** requires special attention.

3 SAFETY REQUIREMENTS

- Installation, electrical connection, functional verification and maintenance must only be performed by qualified or authorised personnel.
- Live electrical parts: disconnect the product from the 230V power supply before performing any maintenance operation. Only power the product after completing assembly.
- Special maintenance must only be performed by authorised and qualified personnel.
- All local regulations, including those referring to national European standards, must be respected during appliance installation.
- The manufacturer declines any responsibility in case of installation which are not in compliance with current regulations, in case of a wrong room ventilation system, in case of an electric connection which is not in compliance with regulations and in case of a wrong use of the appliance.
- It is forbidden to install the stove in bedrooms, bathrooms and in rooms used for storing combustible materials and in one-room flats.
- The installation in one-room flats is allowed if they are in sealed chamber.
- In any case the stove must not be installed in rooms where it can get in touch with water or water splashes because this can cause burn hazards and short-circuit.
- Please check that the floor has an adequate load capacity. If the existing one does not satisfy this requirement, appropriate measure should be provided (for example a plate for distributing the load).
- For safety fire regulations the distances from flammable or sensible to heat objects (sofas, pieces of furniture, wooden covering, etc...) must be respected.
- If there are highly flammable objects (curtains, fitted carpet, etc...), all these distances must be further increased with 1 meter.
- If the floor is made of combustible material, we recommend using a protector made of incombustible material (steel, glass, etc.) that also protects the front part from any falling burnt particles during cleaning.
- The electrical cable must not get in touch with the fume exhaust pipe and nor with every other part of the stove.
- The user, or whoever is operating the product, must read and fully understand the contents of this installation and use guide before performing any operation. Errors or incorrect settings can cause hazardous conditions and/or poor operation.
- The type of fuel to use is only the pellets.
- Do not use the appliance as waste inceneretor.
- Do not place laundry on the product to dry. Any clothes horses or similar objects must be kept at a safe distance from the product. Fire hazard.
- It is forbidden to operate the product with the door open or the glass broken.
- It is forbidden to modify the appliance without authorization.
- Do not use flammable liquids during the ignition (alcool, petrol, oil, etc...).
- After a failed ignition the burning pot must be empty from the amassed pellets, before starting the stove up again.
- The pellet hopper must always be closed with its own lid.
- Before of every intervention leave the fire completely extinguish till the cooling and always disconnect the plug from the electric socket.

- 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 play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Packaging are not toys and could cause suffocation or strangulation and other health hazards! People (childreen included) with reduced mobility, psycological deseases or without experience and knowledge must be kept away from packaging. The stove **IS NOT** a toy.
- Childreen must be constantly overseen in order to assure that they do not play with the appliance.
- During its running, the stove reaches high temperatures: keep away childreen and animals and for your safety please use appropriate fireproof devices, such as heat-protecting gloves.
- The stove is equipped with a safety device that stops the feed screw immediately when the pellet loading door is opened. This safety device (standard EN 60335-2-102) prevents the user from coming into contact with the moving parts of the appliance.
- The chimney flue must be cleaned, since the soot and unburnt oil deposits reduce its section so blocking the draught. In great quantities they can flare up.
- If the pellets are of bad quality (if contains sizing agents, oils, varnishes, plastic remains or if it is mealy), deposits will form along pellets drop pipe during the running. When the stove is switched off, these remains could form little hot coals that rising along the pipe could reach the pellets on the hopper burning them and creating a thick and harmful smoke inside the room. Please always keep the hopper closed with its own lid. If the pipe is sooty, please clean it.
- In case it would be necessary to extinguish the fire emitted by the stove or by the chimney flue, use a fire-extinguisher or contact the firemen. **DO NOT** use water to extinguish the fire inside the burning pot.
- Remote control (if present): keep the batteries out of the reach of children, risk of swallowing. If swallowed, seek medical advice immediately.
- Pellets must not be fed manually into the burner - this wrong behaviour can generate an abnormal amount of unburned gas, with a risk of explosion in the chamber.

4 CAUTIONS - WARRANTY CONDITIONS

4.1 INFORMATION

- Please contact the retailer or qualified personnel for any information, problem or malfunction.
- Only use the fuel specified by the manufacturer.
- When the product is switched on for the first time, it is normal for it to emit smoke due to the paint heating up for the first time. Therefore make sure the room it is installed in is well-ventilated.
- Periodically check and empty the inspectionable parts of the smoke duct (e.g. Tee fitting caps)
- Have the smoke outlet system periodically checked and cleaned
- The product is not a cooking appliance.
- Always keep the cover of the fuel hopper closed.
- Store this installation and user manual with care as it must accompany the product for the duration of its useful life. If the product is sold or transferred to another user, always ensure the manual is also handed over.

4.2 INTENDED USE

The product only works with wood pellets and must be installed inside a room.

4.3 PRODUCT PERFORMANCE CHECKS.

All our products undergo ITT TESTS carried out by a notified third party laboratory (system 3) and in accordance with Regulation (EU) number 305/2011 "Construction products", according to standard EN 14785:2006/16510-2-6:2022 for household appliances and "Machinery Directive" EN 303-5 for boilers.
In the case of tests for any market surveillance or inspections by third parties, please consider the following warnings:

- To reach the declared performance levels, the product must perform an operating cycle of at least 6/8 hours beforehand.
- Set the average draught of the combustion fumes as specified in the "technical product features" table
- The type of pellets used must comply with the current EN ISO 17225-2 class A1 regulation. Fir pellets are usually used for certification.
- The amount of thermal energy can vary according to the length and calorific value of the fuel. This may require some adjustments (accessed from the user menu) to comply with the hourly consumption specified in the "technical product features" table. Using class A1 pellets guarantees a calorific value that is likely to be close to that used in the product certification; the size of the pellet grains can significantly affect hourly fuel loading and consequently performance; it is therefore suggested to use pellets with a 6 mm diameter and an average length of around 24 mm (avoid pellets that are too long or excessively crushed).
- With wood-burning appliances, the fuel must comply with the current EN ISO 17225-5 class A1 regulation. Check the correct moisture of the fuel, as it must be within the range of 12 - 20% (it is best if the moisture is close to 12%, as is normally used in certification). As the fuel moisture increases, different combustion air settings are required, which are implemented from the combustion air register, thereby modifying the mixture of primary and secondary air
- It is important to check the operation of devices that can affect performance (for example air fans or electric safety devices) in case of damage due to handling.
- Nominal performance has been obtained by setting the maximum flame power and room ventilation in **automatic mode**.

4.4 WARRANTY CONDITIONS

For the duration, terms, conditions, limitations of the Cadel S.r.l. conventional warranty, please refer to the specific warranty card that is included with the product.

5 SPARE PARTS

For each repair or adjustment which should be necessary, please contact the dealer where you purchased your stove or your nearest Technical Assistance Service, specifying:

- Appliance model
- Serial number
- Type of problem

Use only original spare parts which you can find at our Technical Assistance Services.

6 DISPOSAL OF MATERIALS

6.1 WARNINGS FOR THE CORRECT DISPOSAL OF THE PRODUCT

The owner is the sole party responsible for demolishing and disposing of the product. This must be performed in compliance with laws related to safety and environmental protection in force in his/her country.
At the end of its working life, the product must not be disposed of as urban waste.
It must be taken to a special differentiated waste collection centre set up by the local authorities or to a retailer that provides this service. Separating and recycling prevents potential negative effects on the environment and health (often caused by inappropriately disposing of product parts). It also allows materials to be recovered in order to obtain significant savings in energy and resources.

The following table and the exploded view it refers to highlight the main components that can be found in the device and indications on how to separate and dispose of them correctly when no longer used.
More specifically, the electric and electronic components must be separated and disposed of in authorised centres, in compliance with the WEEE directive 2012/19/EU and the relative national transpositions.

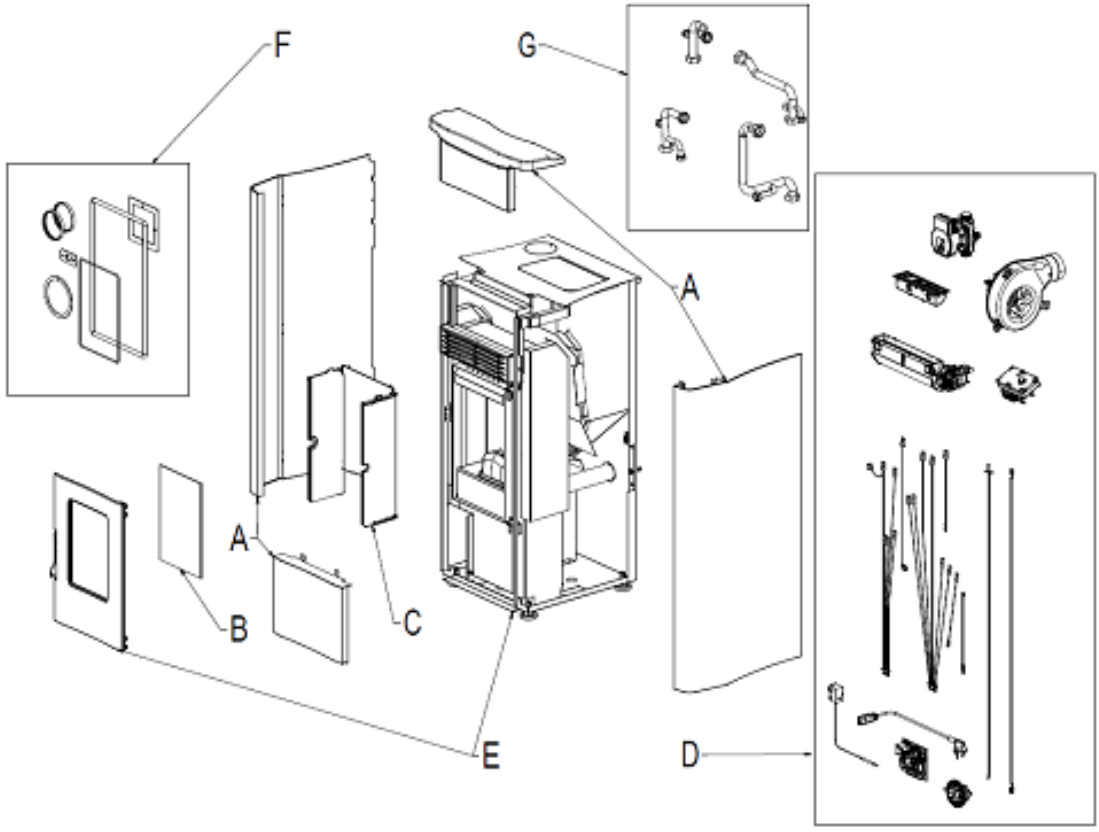

Fig. 1 - Exploded drawing

LEGENDA	WHERE TO DISPOSE	MATERIALS
A. OUTER CLADDING	If there is any, to be disposed of separately based on the material used:	Metal
		Glass
		Tiles or ceramics
		Stone
B. GLASS DOORS	If there is any, to be disposed of separately based on the material used:	Glass ceramic (fire door): to be disposed of with inert or mixed waste
		Tempered glass (oven door): to be disposed of with glass

LEGENDA	WHERE TO DISPOSE	MATERIALS
C. INTERIOR CLADDING	If there is any, to be disposed of separately based on the material used:	Metal
		Refractory materials
		Insulating panels
		Vermiculite
		Insulation, vermiculite and refractory materials that have come into contact with flames or exhaust gases (dispose of in mixed waste)
D. ELECTRIC AND ELECTRONIC COMPONENTS	To be disposed of separately in authorised centres, as indicated in the WEEE directive 2012/19/EU and the relative national transposition.	Wiring, motors, fans, circulators, display panels, sensors ignition plug, electronic cards, batteries.
E. METAL STRUCTURE	To be disposed of separately with metal	-
F. COMPONENTS THAT CANNOT BE RECYCLED	To be disposed of with mixed waste	E.G.: Gaskets, rube piping, silicone or fibres, plastic.
G. HYDRAULIC COMPONENTS	Piping, fittings, expansion vessel, valves. If there are any, to be disposed of separately based on the material they are made of:	Copper
		Brass
		Stainless steel
		Other materials

6.2 INFORMATION FOR MANAGEMENT OF ELECTRIC AND ELECTRONIC APPLIANCE WASTE CONTAINING BATTERIES OR ACCUMULATORS



Fig. 2 - Waste disposal

This symbol, which is used on the product, batteries, accumulators or on the packaging or documents, means that at the end of its useful life, this product, the batteries and the accumulators included must not be collected, recycled or disposed of together with domestic waste. Improper management of electric or electronic waste or batteries or accumulators can lead to the leakage of hazardous substances contained in the product. For the purpose of preventing damage to health or the environment, users are kindly asked to separate this equipment and/or batteries or accumulators included from other types of waste and to arrange for disposal by the municipal waste service. It is possible to ask your local dealer to collect the waste electric or electronic appliance under the conditions and following the methods provided by national laws transposing the Directive WEEE 2012/19/EU.
Separate waste collection and recycling of unused electric and electronic equipment, batteries and accumulators helps to save natural resources and to guarantee that this waste is processed in a manner that is safe for health and the environment.
For more information about how to collect electric and electronic equipment and appliances, batteries and accumulators, please contact your local Council or Public Authority competent to issue the relevant permits.

6.3 INSTRUCTIONS FOR PACKAGING DISPOSAL

The material that the appliance's packaging is made of must be managed correctly, in order to make collection, reuse, recovery and recycling easier, where possible.

The table below illustrates the possible components that the packaging is made of, and the relative instructions for correct disposal.

DESCRIPTION	CODE MATERIAL	SYMBOL	DIRECTIONS FOR COLLECTION
- WOOD BED - WOOD CAGE - WOOD PALLET	WOOD FOR 50		SORTED waste collection WOOD Check with the competent body on how to dispose of this packaging at the recycling depot
- CARDBOARD BOX - CARDBOARD CORNER - CARDBOARD SHEET	CORRUGATED CARDBOARD PAP 20		SORTED waste collection PAPER Check the instructions of the competent body
- CARDBOARD CORNER	NOT CORRUGATED CARDBOARD PAP 21		SORTED waste collection PAPER Check the instructions of the competent body
- LABELS - INSTRUCTION MANUAL	PAPER PAP 22		SORTED waste collection PAPER Check the instructions of the competent body
- APPLIANCE BAG	POLYETHYLENE HD-PE 2		SORTED waste collection PLASTIC Check the instructions of the competent body
- APPLIANCE BAG - BAG OF ACCESSORIES - BUBBLE WRAP - PROTECTIVE SHEET - LABELS	POLYETHYLENE LD PE 04		SORTED waste collection PLASTIC Check the instructions of the competent body
- POLYSTYRENE - FOAM PEANUTS	POLYSTYRENE PS 6		SORTED waste collection PLASTIC Check the instructions of the competent body
- STRAP - TAPE	POLYPROPYLENE PP 5		SORTED waste collection PLASTIC Check the instructions of the competent body.
- SCREWS - STAPLES FOR STRAP - FASTENING BRACKET	IRON FE 40		SORTED waste collection METAL Check with the competent body on how to dispose of this packaging at the recycling depot

7 WIFI - BLUETOOTH CONNECTION

7.1 EASY CONNECT PLUS

Procedure if only valid for models with EASY CONNECT PLUS Wi-Fi technology.

CATEGORIES	ITEMS	SPECIFICATIONS
Wi-Fi	Protocols	802.11 b/g/n (802.11n up to 150 Mbps)
		A-MPDU and A-MSDU aggregation and 0.4 µs guard interval support
	Frequency range	2412 ~ 2484 MHz
Bluetooth (BLE)	Protocols	Bluetooth v4.2 BR/EDR and BLE specification
	Radio	NZIF receiver with -97 dBm sensitivity
		Class-1, class-2 and class-3 transmitter
		AFH
	Audio	CVSD and SBC





Fig. 3 - EASY CONNECT PLUS module



Fig. 4 - EASY CONNECT PLUS display



Fig. 5 - EASY CONNECT PLUS app

The documentation for connecting the Wi-Fi and using the App are available online at the following addresses:

	https://www.cadelsrl.com/donwload-wi-fi/
	http://www.free-point.it/it/downloads/
	https://www.pegasoheating.com/it/documenti/

8 USE

8.1 INTRODUCTION

To have the best performance with the lowest consumption please follow the here descripted instructions.

- The lightning of the pellets occurs very easily if the installation is correct and if the chimney flue is efficient.
- **Switch on the stove at Power 5,** for at least 2 hours, in order to enable the materials which make up the boiler and the fireplace to adjust the inner springing stress. After 2 hours, the smell of paint and smoke will disappear.
- By using the stove the varnish inside the combustion chamber could be subjected to alterations. This occurrence can be attributed to different reasons: an excessive stove overheating, the presence of chemical agents in bad quality pellets, bad chimney draught, etc. Therefore varnish endurance in the combustion chamber cannot be guarantee.

Oily plant waste and lacquers can cause smells and smoke during the first working hours: it is advisable to ventilate the room because they could be noxious to people and animals.

Set values from 1 to 5 are defined by the manufacturer and they can be changed only by an authorized technician.

The product will be subject to expansion and contraction during the ignition and cooling stages, therefore slight creaking noises may be heard. This is perfectly normal as the structure is made of laminated steel and must not be considered a defect.

8.2 CONTROL PANEL DISPLAY

Menu items.

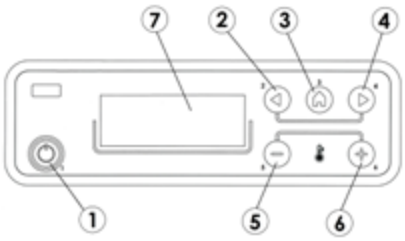

Fig. 6 - Control panel

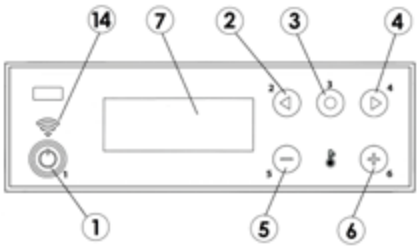

Fig. 7 - Control panel (wi-fi)

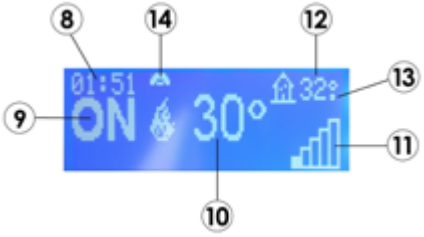

Fig. 8 - Display

LEGEND	Fig. 6|Fig. 7|Fig. 8
1	Boiler lighting/shutdown (ESC)
2	Scrolling of programming menu to decrease
3	Menu
4	Scrolling of programming menu to increase
5	Decrease set temperature/programming functions
6	Increase set temperature/programming functions
7	Display
8	Time
9	Status
10	Temperature set by user
11	Instant power
12	Ambient temperature
13	If there is "'" = 0.5 °C (29.° = 29.5°)
14	Wi-Fi connection (optional - see dedicated manual)

8.3 MAIN MENU

It is accessed by pressing key 3 (menu). The items that are accessed are:
- Time and Date
- Timer
- Sleep (only with the stove on)
- Settings
- Info

Date and time setting
To set the date and time act as follows:
- Press the "menu" button.
- Select "Time and Date".
- Select by pressing "menu"
- Scroll with the arrows and select the variables to be modified one at a time: Day, Hours, Minutes, Day number, Month, Year.
- Select "menu" to confirm.
- Modify with the + - keys.
- Finally press "menu" to confirm and "esc" to exit.

Timer setting (see relative chapter)
Sleep setting (see relative chapter)

8.4 SETTINGS MENU

The SETTINGS menu allows to act on the boiler operating mode:
a - Language
Aa - UPS (only displayed if the stove is set-up)
b - Cleaning (displayed only when the boiler is switched off)
c - Screw Loading (displayed only when the boiler is switched off)
d - Tone
e - Ext.Thermostat (activation)
f - Auto-Eco (activation)
g - Off Time Eco (default 5 minutes)
x - Easy Set
h - Pellet Recipe
i - Smoke Fan rpm
j - Components Test (displayed only when the boiler is switched off)
k - Chimney Sweep Function (activated only when the boiler is switched on, for field emissions test)
l - Technical Menu

a - Language
To select the language act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Language" using the arrows.
- Press "menu" to confirm.
- With the + - keys select the language of interest (IT/EN/DE/FR/ES/NL/PL/DA/SL)
- Press "menu" to confirm and "esc" to exit.

Aa - UPS
To activate the 'UPS' function (can only be activated if the stove is set-up), proceed as follows:
- Press the "menu" key.
- Use the arrows to scroll and select "Settings".
- Press "menu" to confirm.
- Use the arrows to scroll and select "UPS".
- Press "menu" to confirm.
- Use the + - keys to select the minutes for keeping the stove lit.
- Press "menu" to confirm and "esc" to exit.

b - Cleaning
To select "Cleaning" (only when the boiler is switched off) act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Cleaning" using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

c - Screw Loading
To select "Screw loading" (only when the boiler is switched off) act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Screw loading" using the arrows.
- Press "menu" to confirm.
- Select "Enabled" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

d - Tone
This function is disabled by default, so to enable act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Tone" using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

e - Ext.Thermostat (see relative chapter)

f - Auto-Eco activation
To select the Auto-Eco function act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Auto-Eco activation" using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

g - Off Time Eco
To select the Off Time Eco function act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Off Time Eco" using the arrows.
- Press "menu" to confirm.
- Enter the minutes with the + - keys.
- Press "menu" to confirm and "esc" to exit.

x - Easy Set
To select the "Easy Set" function act as follows:
- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Easy Set" using the arrows.

- Press “menu” to confirm.
- With the + - keys select "Easy Set" of interest (SET1 - SET2 - SET3 - SET4)
- Press “menu” to confirm and “esc” to exit.

h - Pellet Recipe
To change the recipe act as follows:
- Press the “menu” button.
- Scroll to “Settings” using the arrows
- Press “menu” to confirm.
- Scroll to “Pellet Recipe” using the arrows.
- Press “menu” to confirm.
- Modify the % with the + - keys.
- Press “menu” to confirm and “esc” to exit

i - Smoke Fan rpm
To change the parameter act as follows:
- Press the “menu” button.
- Scroll to “Settings” using the arrows
- Press “menu” to confirm.
- Scroll to “Smoke Fan rpm” using the arrows.
- Press “menu” to confirm.
- Modify the % with the + - keys.
- Press “menu” to confirm and “esc” to exit

j - Components Test
To activate the “Components Test” function (only when the boiler is switched off) act as follows:
- Press the “menu” button.
- Scroll to “Settings” using the arrows
- Press “menu” to confirm.
- Scroll to “Components Test” using the arrows.
- Press “menu” to confirm.
- Select the test to be performed with the + - keys
- Press “menu” to confirm and “esc” to exit

k - “Chimney Sweep Function"
To activate the “Chimney Sweep Function” function act as follows:
- Press the “menu” button.
- Scroll to “Settings” using the arrows
- Press “menu” to confirm.
- Scroll to the “Chimney Sweep Function” function using the arrows.
- Press “menu” to confirm.
- Select “On” with the + - keys (Off by default)
- Press “menu” to confirm and “esc” to exit

l - Technical Menu
To access the technical menu one must contact an assistance centre as one needs a password to enter.

8.5 INFO MENU

- Product Type
- Firmware Version
- Software info
- Total hrs.
- Ignition N.
- Rpm Smoke Fan
- Smoke Temp.
- Air Fan Voltage
- Screw Loading
- Fire

8.6 IGNITION OF THE STOVE

We remind you that the first ignition must be carried out by a specialized and authorixed technician who will check that all is installed in compliance with current regulations and checks the efficiency.

- If inside the combustion chamber there are booklets, manuals, etc..., remove them.
- Check if the door is correctly closed.
- Check if the stove is correctly inserted in the electric socket.
- Before switching the stove on, assure you the burning pot is clean.
- To start the stove, keep the P1 button pressed until the ON sign and a flashing flame to its side appear. The ignition resistance pre-heating starts. After some seconds the feed screw loads pellets and the resistance pre-heating continues. When the temperature is high enough (after about 5-8 minutes), ignition is considered to be completed.
- Once the ignition step is complete, the stove moves into operating mode and shows the selected heat output, the ambient temperature and the **big flame** (see **Fig. 9**).
- If the ambient temperature value exceeds the limit set on the button panel in the temperature set, the heat output is brought to its lowest value and the **small flame** is shown (see **Fig. 10**). When the ambient temperature decreases below the set temperature, the stove goes back to the set output.



Fig. 9 - Big flame



Fig. 10 - Small flame

8.7 FAILED IGNITION

If pellets should not ignite, the lack of ignition will be signalled by the A01 "No Ignition" warning.
If the ambient temperature is below 5°C, the resistance may not heat up enough to guarantee the pallet ignition. In this case, remove the unburned pellets from the burning pot and restart ignition.
Too much pellets in the burning pot, or humid pellet, or sooty burning pot make ignition difficult and create dense white smoke which is harmful to health and can cause explosions on the combustion chamber. It is therefore necessary not to stand in front of the stove during ignition stage if dense white smoke is present.

If after some months the flame appears weak and/or orange colored or the glass tends to blackens and the burning pot to become encrusted, clean the stove, clean the fume conduit and the chimney flue.

ATTENTION!
Make sure pellets and ash have not accumulated in the brazier due to failed ignition. If the brazier is not cleaned before reattempting, there is the risk of further failed ignitions and even explosions in some cases.

8.8 SWITCH OFF (ON PANEL: OFF WITH FLASHING FLAME)

If the shutdown key is pressed or if there is an alarm signal, the boiler goes into the thermal shutdown phase which entails the automatic execution of the following stages:

- Pellet loading is stopped.
- The room fan continues to operate until the requested temperature is reached.
- The flue fan is set to its highest value, which it keeps until the requested temperature is reached, plus a safety time of 10 additional minutes. After that, if the fume temperature has decreased below the switch off threshold, it stops, otherwise the cooling process goes on.
- If the stove has switched off normally, but owing to thermal inertia, the fume temperature goes over the threshold again, the switch off process is reactivated until the temperature decreases again.

8.9 POWER FAILURE

- After a **black-out** lower than 10 seconds, the stove turns back to the power which was settled.
- After a **black-out** of more than 10 seconds, the stove enters the during shutdown. Completed this phase, it starts automatically up with the different phases.

8.10 ADJUSTMENTS MENU

To access the adjustments menu act as follows:

- Press the + - keys
- Scroll with the <> arrows and select "Set Room T " or "Air Fan Speed 1" or "Air Fan Speed 2" or "Comfort Mode" or "Fire"
- Press "menu" to access the selected option.
- Modify with the + - keys.
- Press "menu" to confirm and "esc" to exit.

Set Room T. - this function allows setting the desired temperature in the room where the stove is installed, starting from a minimum of 5°C up to a maximum of 35°C. When this condition is met, the stove reaches the minimum consumption values (flame and hot air fan speed at minimum values) and then goes back to theset values when the ambient temperature goes below the set threshold (see **Fig. 11**).



Fig. 11 - Display

Note: The full stop to the right of the ambient temperature shown in the control panel display (upper right) indicates the half degree (e.g. 23.° means 23.5°C).

Air Fan Speed 1 - this function allows selecting the desired speed for the ambient fans from 1 to 5 or A. A means automatic, ventilation depends on power, recommended setting (see **Fig. 12**).

Air Fan Speed 2 - (ONLY FOR STOVES WITH DUCTING) this function allows selecting the desired speed for the DUCTING fans from 1 to 5 or A. A means automatic, ventilation depends on power, recommended setting (see **Fig. 13**).

Air Fan Speed. 3 - (ONLY FOR STOVES WITH DUCTING) this function allows selecting the desired speed for the DUCTING fans from 1 to 5 or A. A means automatic, ventilation depends on power, recommended setting (see **Fig. 14**).



Fig. 12 - Display



Fig. 13 - Display



Fig. 14 - Display

With function "1" or "2" or "3" or "4" or "5" the fan is forced to work at the selected output. (For example: by setting "3", even if the fan is set to heat output 5 it will work as if set to heat output "3", etc.).

If the stove is set to maximum heat output 5 and the fans to minimum output 1, this may cause overheating and the "THERMAL SAFETY" alarm to go off.

Comfort Mode - In the air versions, it cannot be deactivated. At power 1 the fans are off.
In versions with ducting, the comfort mode allows you to automatically activate or deactivate all the fans at power 1.
If set in automatic (A), the comfort mode is active by default and disables, in addition to the room fan, also the ducting fans. To reactivate them, simply set their adjustment other than automatic, e.g. 1,2,3,4,5.

Fire - this function allows setting the flame power from a minimum of 1 to a maximum of 5. The power levels correspond to a different fuel consumption value: by setting 5 you can heat the room in less time, while by setting 1 you can keep the ambient temperature constant for a longer period. The flame set goes to the minimum value automatically when the set temperature value is reached.
If only one notch appears, the stove has a flame power equal to 1.
If 5 notches appear, the stove has a flame power equal to 5.
If the notches flash, automatic cleaning is under way.



Fig. 15 - Display

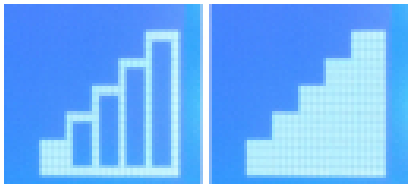

Fig. 16 - Power levels

8.11 PROGRAMMED MODE (TIMER) - MAIN MENU

Setting the current day and time is essential for the proper operation of the timer.

There are six TIMER programmes, for each one the user can decide the start-up and shutdown time as well as the day of the week in which it is active.
When one or more programmes are active, the panel alternately displays the boiler status and TIMER "n" whereby "n" is the number relating to the activated timer programmes, separated from each other with a dash
Example:

- TIMER 1 Timer programme 1 active.
- TIMER 1-4 Timer programmes 1 and 4 active.
- TIMER 1-2-3-4-5-6 Timer programmes all active.

EXAMPLE OF PROGRAMMING
With boiler on or off:

- access the MENU,
- scroll to TIMER with the <> arrows,
- press the "Menu" key
- the system proposes "P1" (Press the <> keys for the subsequent timers P2,P3, P4, P5, P6)
- to activate "P1" press the "Menu" key
- press + - and select "ON"
- confirm with the "Menu" key

At this point it will propose 00:00 as starting time, with key + - adjust the starting time and press the "menu" key to confirm.
The next step proposes a shutdown time of 10 minutes above that set for start-up: press the + key and adjust the shutdown time, confirm with the "menu" key.
Subsequently the system proposes the days of the week in which to activate or deactivate the previously set timer. With the - or + key highlight with the white background the day in which one wishes to activate the timer and confirm with the "menu" key. If no day of the week is confirmed as active, in turn the timer programme will not appear active in the status screen.
Continue to program the following days or press "ESC" to exit. Repeat the procedure to program the other timers.

8.12 PROGRAMMING EXAMPLES:

P1			P2		
on	off	day	on	off	day
08:00	12:00	mon	11:00	14:00	mon
Boiler on from 08:00 to 14:00					
on	off	day	on	off	day
08:00	11:00	mon	11:00	14:00	mon
Boiler on from 08:00 to 14:00					
on	off	day	on	off	day
17:00	24:00	mon	00:00	06:00	tue
Boiler on from 17:00 on monday to 06:00 on tuesday					

8.13 NOTES FOR TIMER OPERATION

- Start-up with the timer always takes place with the last temperature and ventilation settings (or with default 20°C and V3 settings in the event they have never been changed).
- It is possible to set the shutdown time from "ignition time + 10 minutes" up to 23:50. If 24:00 is set as shutdown time, the stove will not switch off (use this shutdown time, for example, when the next day is programmed to continue from 00:00).
- If the shutdown time is not already memorised, it proposes a start-up time in + 10 minutes.
- A timer programme switches the boiler off at 24:00 of one day and another programme switches it on at 00:00 of the next day: the boiler stays on.
- A programme proposes a start-up and shutdown in times included within another timer programme: if the boiler is already on, start will not have any effect, while OFF will switch it off.
- In the boiler on and timer active condition, press the OFF key and the boiler will switch off, it will switch on automatically at the next time set on the timer.
- In the boiler off and timer active condition, press the ON key and the boiler will switch on, it will switch off at the time set on the active timer.

8.14 AUTO ECO MODE (SEE SECTION F-G SETTINGS MENU A PAG. 13)

To activate the "Auto-Eco" mode and adjust the time refer **SETTINGS MENU a pag. 13**.
The possibility to adjust the " **t Off Time Eco**" comes from the need to ensure proper operation in the various rooms the boiler can be installed in and prevent continuous shutdowns and start-ups in the event the temperature is subject to sudden changes (air currents, poorly insulated rooms, etc.).
The ECO switch off procedure is automatically activated when the power recall device is activated (Room probe +1°C or external thermostat with open contact, see **Fig. 17**). "**t Off Time Eco**" time decrease starts (5 minutes by default, see **Fig. 18**, and can be modified from the "Settings" menu). During this phase the panel view is activated ON with the small flame and alternates chrono (if ON) - active Eco.



Fig. 17 - Active eco 1



Fig. 18 - Active eco 2



Fig. 19 - Active eco 3

On the upper display the minutes for the Eco Stop countdown are shown. The flame goes to P1, where it remains until the set "**t Off Time Eco**" time is over and, if conditions are still met, it switches to the switch-off process. The ECO switch-off countdown is reset if one of the devices resumes recalling power.
When the switch-off procedure begins, the panel shows: Off - Active Eco - small flashing flame (see **Fig. 19**).
When the stove is switched off, the panel shows active OFF-ECO with the flame icon off.
For an ECO switch on, the following conditions must be met simultaneously:

- Room probe -1°C or external thermostat with closed contact (for at least 20" to avoid false recalls).
- After 5 minutes from the beginning of the switch-off procedure.

8.15 SLEEP FUNCTION (MAIN MENU)

The sleep function is activated only when the boiler is switched on and allows to quickly set a time at which the product must switch off.
To set the Sleep function act as follows:

- Enter MENU
- Scroll to SLEEP with the <> arrows
- Press Menu
- With the + - keys adjust the desired shutdown time.

The panel proposes a shutdown time of 10 minutes from the current time, adjustable with key 4 until the next day (I can therefore delay the shutdown for up to a maximum of 23 hours and 50 minutes).



Fig. 20 - Sleep

If the SLEEP function is active with the TIMER active the first has priority over the latter, therefore the boiler will not switch off at the time set on the timer but instead by the time established by the sleep function, even if later than the time set on the timer.

8.16 EASY SET FEATURE (SEE SECTION X SETTINGS MENU A PAG. 13)

Proper operation of a stove mainly depends on the flue it is connected to. Once it is connected, it is equally important to perform proper adjustment of combustion parameters.
The Easy Set feature makes it possible to adjust combustion more easily, in the event that one should notice that the stove does not properly burn the fuel.
In the "Settings" menu, under the heading Easy Set, there are 4 configurations, SET1-SET2-SET3-SET4.
Select the SET based on the type of installation.

Caution, before changing the stove's programming :

- It is recommended to change the factory settings under the supervision of an authorised technician.
- Before installation, ensure the flue has been installed and certified by suitable personnel according to the legal provisions in force.

Examples of available "Easy Set" configurations compared to «typical» installation of reference:

SET 0 : Default parameters
SET 1 : Vertical exhaust
SET 2 : Concentric vertical exhaust (mainly used in France)
SET 3 : Horizontal concentric wall exhaust (only used and permitted in France)
SET 4 : Smoke fitting with horizontal section

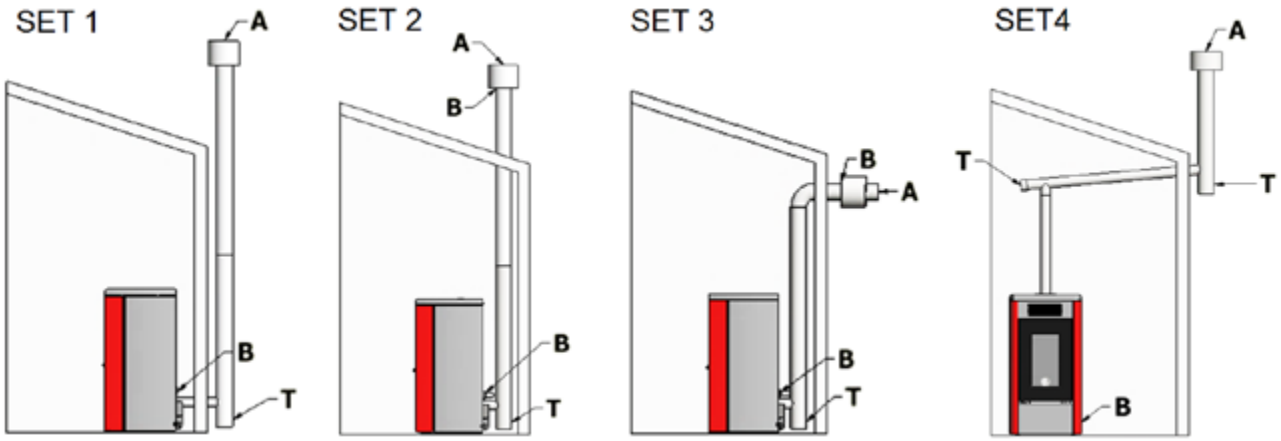

Fig. 21 - Ensemble d'exemples

LEGENDA	*Fig. 21*
A	*Smoke Outlet*
B	*Combustion Air Intake*
T	*Inspection cap*

8.17 PELLETS RECIPE (SEE SECTION H SETTINGS MENU A PAG. 13)

Changes to be made with the support of the authorised technician.

Activates only with the Easy Set function disabled, **"SET: 0"** *!*

This function is for adapting the stove to the pellets that are being used. In fact, as there are several types of pellets on the market, boiler operation is extremely variable depending on the fuel quality. In the event the pellets tend to clog the brazier due to an excessive load of fuel or in the event the flame is always high even at low powers and, vice versa if the flame is low one can decrease/increase the amount of pellets in the brazier:
The available values are:
-30= 30% reduction with respect to the default setting.
-25= 25% reduction with respect to the default setting.
-20= 20% reduction with respect to the default setting.

-15 = 15% reduction with respect to the default setting.
-10= 10% reduction with respect to the default setting.
-5= 5% reduction with respect to the default setting.
0= No variation.
+5= 5% increase with respect to the default setting.
+10 = 10% increase with respect to the default setting.
+15 = 15% increase with respect to the default setting.

8.18 SMOKE RPM VARIATION (SEE SECTION I SETTINGS MENU A PAG. 13)

Changes to be made with the support of the authorised technician.

Activates only with the Easy Set function disabled, **"SET: 0"** *!*

If the installation presents difficulties for smoke evacuation (no draught or no pressure in the duct), the smoke and ash expulsion speed can be increased. This change resolves all the potential problems related to pellets clogging in the brazier and deposits forming at the bottom of the brazier itself caused by poor quality fuel or fuel that produces a lot of ashes. The values available are from -27% to +27% with variations of 3 points at a time. The variation in negative can be used in case the flame is too low.

8.19 CHIMNEY SWEEP FUNCTION (FOR MAINTENANCE TECHNICIANS ONLY) - SEE SECTION K SETTINGS MENU A PAG. 13

This function can be activated only when the boiler is on and with power output and heating operation power with parameters P5, with fan (if present) in V5. Any loading/smoke ventilation percentage corrections must be taken into account. This status lasts 20 minutes, the countdown is displayed on the panel. At any time the technician can interrupt this stage by quickly pressing the on/off key.

9 FUEL

9.1 FUEL

- Use top-quality pellets because they have influence in the calorific value and in ash remains.
- Not adequate pellets cause a bad combustion, a frequent burning pot obstruction and exhaust conduits obstruction. Further it decreases the calorific value, soils the glass and increases consumptions and ash and unburnt granules quantity.

Humid pellets cause a bad combustion and running, so please assure you that they are stored in dry places and far at least one meter from the stove and/or any other source of heat.

- It is advisable to try different type of pellets available on the market and to choose that which gives the best performance.

Do not use pellets other than natural wood because they may contain very aggressive chemical components which corrode metal.

- Pellets of variable quality and size are available on the market: the smaller the pellet, the greater the fuel supply, resulting in poor combustion

Depending on the type of pellets it could be necessary a parameters adjustment, please contact an Authorized Assistance Service.

The main quality certifications for pellets currently available on the European market guarantee that the fuel complies with class A1/A2 according to ISO 17225-2. These certifications include, for example, ENPlus, DINplus, Ö-Norm M7135, and specifically assure that the following characteristics are complied with:

- calorific value: 4.6 - 5.3 kWh/kg.
- Water content: ≤ 10% of the weight.
- Percentage of ash: max 1.2% of the weight (A1 less than 0.7%).
- Diameter: 6±1/8±1 mm.
- Length: 3-40 mm.
- Content: 100% untreated wood without the addition of binding agents.

The company recommends using certified fuel for its products (ENPlus A1, DINplus, Ö-Norm M7135).
The use of pellets that do not comply with the characteristics specified previously may compromise the operation of your product and therefore invalidate the warranty and product liability.

9.2 PELLET SUPPLY



Fig. 22 - Wrong opening of the pellets bag

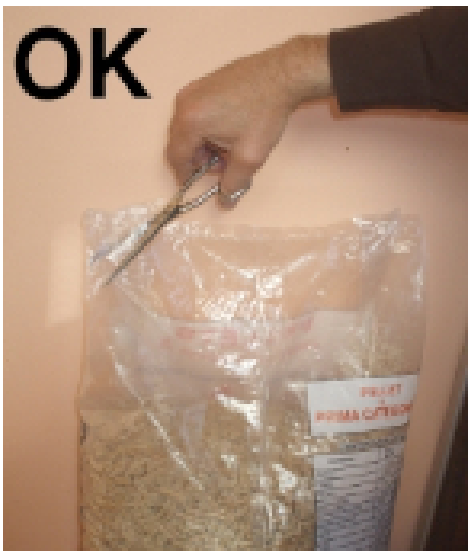

Fig. 23 - Right opening of the pellets bag

It is necessary to avoid to fill the hopper with the pellet when the stove is running.
- Do not get the bag of pellet in contact with hot stove surfaces.
- Do not empty the hopper with remaining fuels (unburnt pellet) from the burning pot coming from ignition waster.

9.3 PELLET REFUELLING TIMER

This stove is equipped with a safety timer that activates after the pellet hopper door has been open for **90 seconds** during reloading (see **Fig. 24** and **Fig. 26**). After 90 seconds, the stove goes into "A05" depression alarm and proceeds to switch off.
Wait until it switches off, then light it again.



Fig. 24 - Door open

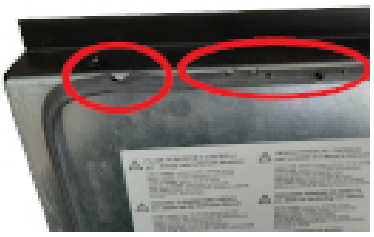

Fig. 25 - deteriorated gasket

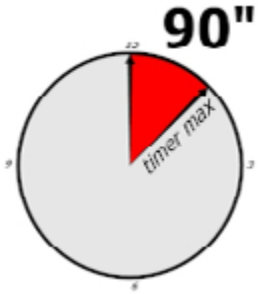

Fig. 26 - Timer: 90 seconds

To operate correctly, the stove must work with the pellet hopper door always closed; should it remain open for more than 90 seconds, the stove switches off.

- The loading system stops when the tank door is opened.

Before closing the lid, make sure there are no pellets below the gasket. Pellets deteriorate the gasket and eliminate its airtight sealing. (vedi **Fig. 25***)*

9.4 PELLET LOADING THROUGH CHUTE (OPTIONAL)

It is possible to facilitate refilling the pellet using the chute.
Proceed as follows to mount:



Fig. 27 - Hook the chute

- Open the pellet door.
- Hook the chute into the appropriate seats (see **Fig. 27**).

10 VENTILATION

- The stove is endowed with a ventilation system.
- The air blown from fans keeps the appliance at a low temperature range in order to avoid high stresses to the materials which make it up.
- Do not cover the hot air outlet slits with any object to avoid stove's overheating!
- The stove is not suitable for food cooking.



Fig. 28 - Do not cover air slits

11 REMOTE CONTROL (OPTIONAL)

- The stove can be operated through a remote control (optional)
- Operation requires 1 CR 2025 (3Volt) Lithium battery
- Operating temperature 0 °C / 50 °C
- 38 khz infrared signal

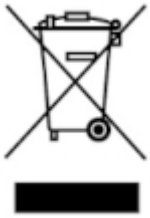	Used batteries contain metals which are harmful for the environment; they must therefore be disposed of separately in the special containers.



Fig. 29 - Remote control

LEGEND	*Fig. 29*
Button 1	*Increase the desired temperature (5÷35 °C)*
Button 2	*Decrease the desired temperature (35÷5 °C)*
Button 3	*On / off*
Button 4	*Menu*
Button 5	*Decrease the power level from 5 to 1*
Button 6	*Increase the power level from 1 to 5*

12 SAFETY DEVICES AND ALARMS

The product is supplied with the following safety devices

12.1 PRESSURE SWITCH

- It controls pressure in the fume duct. It blocks the pellet feed screw in the following instances:
- clogged exhaust
- Significant negative (wind)
- clogged fume passages
- open pellet loading tank
- open fire door or worn/broken gaskets.
- see SMOKE RPM VARIATION User Manual

12.2 SMOKE TEMPERATURE PROBE

Detects the temperature of the smoke, thereby enabling start-up or stopping the product when the temperature drops below the preset value.

12.3 CONTACT THERMOSTAT IN THE FUEL TANK

A manual reset thermostat is installed inside the tank, which intervenes if the temperature range of the tank exceeds the allowed limits, making it impossible for the pellets inside the tank to catch fire due to overheating.

"Thermostat alarm": the thermostat interrupts the power supply to the feed screw.

- Reset the error by pressing the P4 key. The stove performs a "CLEANING" and "OFF" phase.
- Loosen the black cap (see **Fig. 30 Fig. 31 Fig. 32**), press the button and tighten the protective cap again.
- Clean the burning pot and restart the stove by pressing the P4 key.



Fig. 30 - Manual reset: located under the stove FRAME³



Fig. 31 - Manual reset: MODO AIRTIGHT e QUASI-MODO³ UP



Fig. 32 - Manual reset

12.4 ELECTRICAL SAFETY

The product is protected against sudden current surges by a main fuse in the power supply panel on the rear part of the product. Other fuses that protect the electronic boards are found on the latter.

12.5 SMOKE FAN

If the fan stops, the electronic board promptly shuts off the pellets supply and an alarm message is displayed.

12.6 GEAR MOTOR

If the gear motor stops, the boiler will continue to run until the flame goes out due to lack of fuel and until a minimum level of cooling is reached.

12.7 TEMPORARY POWER CUT

If the power cut lasts less than 10" the boiler returns to its previous operating status; if it lasts more it carries out a cooling/restart cycle.

12.8 FAILED START-UP

If during ignition no flame develops, the boiler will go into alarm condition.

12.9 BLACKOUT WITH THE BOILER ON

In the event of a power cut (BLACKOUT) the boiler behaves as follows:

- Blackout below 10": it returns to its operation in progress;
- In the event of a power cut that lasts over 10" with the boiler on or in the start-up stage, when the boiler is powered again it goes back to the previous operating condition with the following procedure:

1) It performs a cooling phase to the maximum.
2) Performs a new ignition.

During stage 1 the panel displays ON BLACK OUT.
During stage 2 the panel displays Start-up.
If during stage 1 the boiler receives commands from the panel and thus carried out manually by the user, then the boiler stops executing the blackout recovery status and proceeds to restart or shutdown as requested by the command.

12.10 ALARM ALERTS

Whenever an operating condition other than that designed for the regular operation of the boiler occurs, there is an alarm condition. The control panel gives information on the reason of the alarm in progress.

PANEL ALERT	TYPE OF PROBLEM	SOLUTION
A01	The fire does not ignite.	Check whether the brazier is clean / level of pellets in the hopper.
		Check pellet level in the tank.
		Check that the burning pot is correctly positioned in its case and does not contain deposits or unburned material.
		Check that the pellet cover and the fire door are correctly closed.
		Clogged flue
		Damaged ignition resistance
A02	The fire goes off abnormally.	Check the level of pellets in the hopper.
A03 Thermostat alarms	The temperature of the pellets hopper or the water temperature exceed the envisioned safety threshold.	Wait for the cooling stage to end, cancel the alarm and restart the boiler setting the fuel loading at minimum (SETTINGS menu - Pellet Recipe).
		Check that dust does not clog the aeration grid on the stove back.
		If the alarm persists, contact the service centre. Check if the room fan works properly (if present).
A04	Smoke overheating.	The set smoke threshold has been exceeded. Reduce pellets loading (SETTINGS menu - Pellet Recipe).
A05 Pressure switches alarm	Flue gas pressure switch trip. (see SMOKE RPM VARIATION User Manual)	Check for chimney obstructions/fire door opening, pellet tank opening, gasket seals, side fire ducts cleaning, clogged hose connection, excess flue length, unfavourable weather conditions and clogged stove.
A06 Cleaner alarm *(Alarm only visible if self-cleaning brazier present)*	Cleaner blocked	Clean the brazier and remove any objects blocking the rotation mechanism.
		If the alarm persists, contact the service centre.
A08	Abnormal smoke fan operation.	If the alarm persists, contact the service centre.
A09	Smoke probe faulty.	If the alarm persists, contact the service centre.
SERVICE	Routine maintenance alert (it does not block the system).	When this flashing message appears upon start-up, it means that the preset operating hours have elapsed before maintenance. Contact the service centre.

12.11 ALARM RESET

To reset the alarm you must keep the 1 (ESC) button pressed for some time. The stove performs a check to determine whether the warning cause is still present.
If this is the case, the warning will be shown again, otherwise the stove will switch to the OFF position.
If the warning is still present, contact a service centre.

13 ROUTINE MAINTENANCE

13.1 INTRODUCTION

For a long working life of the stove, have a periodic cleaning of the stove as described in the following paragrafs.

- Fume outlet pipes (fume conduit + chimney flue + chimney pot) must always be cleaned, scrubbed and checked by an authorized technician in compliance with local regulations, with the instructions of the manufacturer and those of your insurance company.
- If there are no local regulations and no instruction from your insurance company, it is necessary to have your fume pipe, chimney flue and chimney pot cleaned at least once a year.

- It is also necessary to have the combustion chamber, motors and fans cleaned and to have the gaskets and the electronical elements checked at least once a year.

All these operations must be planned in time with your Autorized Technical Assistance Service.

- After a long ineffective time, before turning on the stove check if there are obstructions in the fume exhaust.
- If the stove had been using continuously and intensely, the whole system (chimney included), must be cleaned and checked more frequently.
- In case of replacement of damaged pieces please ask for the original spare part at the Autorized Retailer.

13.2 BEFORE EACH START-UP

Clean the ash and any deposits in the brazier that could clog the air passage holes.
If the pellets in the hopper finish, unburned pellets may accumulate in the brazier. Always empty the residue in the brazier before startingup.
Check that there is no excessive ash accumulated under the burning pot compartment. If it exceeds 2 cm of height, we recommend sucking it.

REMEMBER THAT ONLY A CORRECTLY POSITIONED AND CLEAN BRAZIER CAN GUARANTEE START-UP AND OPTIMAL OPERATION OF YOUR PELLET PRODUCT.

For the brazier to be cleaned properly, remove it from its housing completely and thoroughly clean all the holes and the grate on the bottom.
If good quality pellets are used, you will normally only need to use a brush to restore the optimal operating conditions of the component.

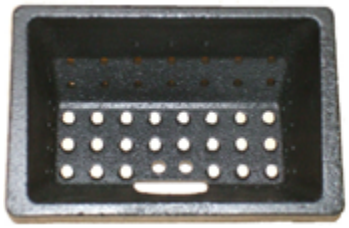

Fig. 33 - Example of cleanly brazier



Fig. 34 - Example of dirty brazier

13.3 BURNING POT AND ASH TRAY CLEANING

- Open the door.



Fig. 35 - Burning pot extraction



Fig. 36 - Burning pot cleaning

- Extract the burning pot (see **Fig. 35**) from its seat and empty it from the ash.
- If necessary clean with a pointed object the holes obstructed by encrustations (see **Fig. 36**).



Fig. 37 - Burning pot box cleaning

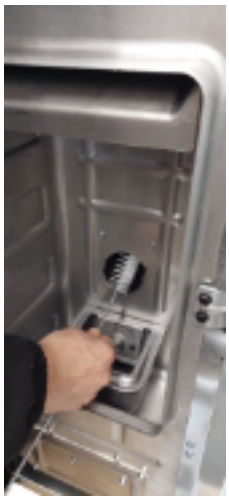

Fig. 38 - Cleaning with a brush

- Clean and drain away the burning pot box and ash tray box from ash which has accumulated in its inner (see **Fig. 37**).
- Clean also the hole for pellet drop with a brush (see **Fig. 38**).
- The ash remains must be poured in a metal container with a sealed lid and this container must never get in touch with combustible materials (for example put on a wooden floor), as the inner ash keeps the embers firing for a long time.
- Only when the embers are off the ash coul be poured in the organic waste.
- Pay attention if the flame becomes red colured, if it is weak or if black smoke creates in the inner: in this case the burning pot is encrusted and needs to be cleaned. If it is broken, it must be replaced.

13.4 HOPPER CLEANING

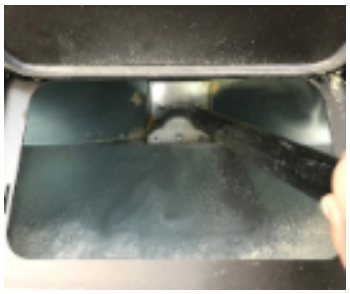

Fig. 39 - Hopper cleaning

Per each pellets supply, check the probable presence of meal, sawdust and other remanins on the hopper bottom. If present, they must be removed with the aid of a vacuum cleaner (see **Fig. 39**).

13.5 FUME PIPES ANNUAL CLEANING

Clean annually from soot with brushes.
The cleaning operation must be executed by a specialized stove-repairer who will provide for the cleaning of fume pipe, chimney flue and chimney pot. He will also check their eficiency and will release a written declaration of the safety of the appliance. This operation must be executed at least once a year.
When it is not in use, we recommend disconnecting the appliance from the smoke duct. This avoids condensation from forming inside the combustion chamber.

13.6 GENERAL CLEANING

For cleaning external and inner parts of the stove do not use steel wools, muriatic acid or other corrosive and abrasive materials.

13.7 CLEANING OF PAINTED METAL PANELS

To clean painted metal panels use a soft cloth. Do not use degreasant agents like alcool, diluents, acetone, gasoline because these could irremediably damage the varnish.

13.8 CLEANING OF CERAMIC AND STONE PANELS

Some stove models has an external lining made up of ceramic or stone. These pieces are handmade therefore they could inevitably present crazings, seedinesses, shadings.
To clean ceramic or stone panels use a soft and dry cloth. If using any cleaners this will seep through the crazings putting them in evidence.

13.9 GASKET REPLACEMENT

The appliance CANNOT be used if the gaskets of the fire door, tank or smoke chamber are damaged.
They must be replaced by an authorised technician to ensure the correct operation of the stove.

Use exclusively original spare parts.

13.10 GLASS CLEANING

The glass-ceramic of the fire door is able to stand till 700°C but not to thermal shocks.
The probable cleaning with usual sale product for glass cleaning must be effected at cool glass in order to avoid explosions.

You should clean the fire door glass every day!

13.11 SHUTDOWN (END OF SEASON)

At the end of each season, before switching the product off, it is recommended to remove all the pellets from the hopper with a vacuum cleaner with a long pipe.

We recommend removing the unused pellets from the hopper because they can retain moisture. Disconnect any combustion air ducting that can lead to moisture inside the combustion chamber but, above all, ask the specialised technician to refresh the paint inside the combustion chamber with the special silicone spray paints (available at any store or Technical Assistance Centre) during the necessary annual end of season scheduled maintenance operations. This way the paint will protect the inner parts of the combustion chamber, blocking any type of oxidative process.



Fig. 40 - Shutter with fuses to remove

When not in use the appliance must be disconnected from the mains power supply. It is recommended to remove the power cable for additional safety, especially in the presence of children.
The service fuse may have to be replaced if the control panel display does not switch on.
There is a fusebox on the back of the product, near the power socket.
After removing the plugs from the power socket, open the fusebox cover with a screwdriver and replace the fuses if necessary (3.15 A delayed) - seek assistance from an authorised and qualified technician.

13.12 CHECKING THE INNER COMPONENTS

ATTENTION!
The internal electromechanical components must only be checked by qualified personnel whose technical expertise includes combustion and electricity.

It is mandatory for this yearly maintenance to be carried out (with a scheduled service contract). This operation consists of a visual and functional inspection of the internal components. A summary of the checks and/or maintenance operations that are essential for the correct operation of the product is provided below.

USER/TECHNICIAN	PARTS/FREQUENCY	1 DAY	2-3 DAYS	7 DAYS	1 YEAR
UNDER THE USER'S RESPONSIBILITY	Brazier	X			
	Self-cleaning brazier (if applicable)			X	
	Ash compartment **			X	
	Glass		X		
BY THE QUALIFIED TECHNICIAN	Upper exchanger				X
	Lower exchanger				X
	Smoke duct				X
	Gaskets				X
	Door closure operation				X

** Emptying of the ash compartment depends on various factors (pellet type, stove power, stove use, type of installation...); the exact emptying time will be suggested by experience.

14 IN CASE OF ANOMALY

14.1 PROBLEM SOLVING

Before of every Authorized Technician intervention, the same Technician has the duty to check if the parameters of the mother board correspond to those of the table you own.

In case of doubts regarding the use of the stove, please contact ALWAYS the Authorized Technician on order to avoi irreparable damages!

PROBLEM	CAUSE	SOLUTION	INTERVENTION
The control display does not switch on	The stove is without power supply	Check if the plug is connected.	
	Burned protection fuse in the electric socket	Replace the protection fuses in the electric socket (3.15A-250V).	
	Faulty control display	Replace the control display.	
	Faulty flat cable	Replace the flat cable.	
	Faulty electronic board	Replace the mother board.	

PROBLEM	CAUSE	SOLUTION	INTERVENTION
Pellets do not reach the combustion chamber	Empty hopper	Full the hopper.	
	Open fire door or open pellet door	Close fire door and pellet door and check that there are no pellet grains at the gasket level.	
	Clogged stove	Fume chamber cleaning	
	Auger blocked by a foreign object (for example nails)	Clean the auger.	
	The auger geared motor is out of order	Replace the geared motor.	
	Check if on the display there is an "ACTIVE ALARM"	Have the stove checked.	
The fire extinguish and the stove stops	Empty hopper	Full the hopper.	
	Auger blocked by a foreign object (for example nails)	Clean the auger.	
	Bad quality pellets	Try other types of pellets.	
	Pellet drop value too low "phase 1"	Adjust the pellet loading.	
	Check if on the display there is an "ACTIVE ALARM"	Have the stove checked.	
	The door does not close perfectly or the gaskets are worn	Check the door seal and replace the gaskets.	
	Ignition step is not completed	Empty the brazier and repeat ignition.	
	Clogged exhaust	The exhaust chimney is partially or totally obstructed. Call a skilled chimney technician to check from the stove exhaust to the chimneypot. Clean immediately.	

PROBLEM	CAUSE	SOLUTION	INTERVENTION
Flames are weak and orange coloured, pellets do not burn properly and the glass blackens	Not sufficient combustion air	Check as following: probable obstructions of the combustible air inlet from the back or from the bottom of the stove; burning pot obstructed holes with too ash remains. Have the fan blades and auger cleaned. (see SMOKE RPM VARIATION User Manual)	
	Obstructed exhaust	The exhaust chimney is partially or totally obsturcted. Contact an expert stove-repairer who checks the stove from the exhaust up to the chimney pot. Provide immediately for stove cleaning.	
	Obstructed stove	Provide immediately at the inner cleaning of the stove.	
	The fume fan is out of order	The pellets can burn also thanks to chimney flue depression without the aid of the fume fan. Have the fume fan immediately replaced. It can be noxious to health to let the stove running without fume fan.	
The exchanger fan continues to turn even though the stove has just cooled	Faulty fume temperature probe	Replace the fume probe.	
	Faulty mother board	Replace the mother board.	
Ash remains along the stove	Faulty or out of order door gaskets	Replace the gaskets.	
	Not sealed fume pipes	Contact an expert stove-repairer who will immediately provide for sealing the junctions with high-temperature silicone and/or for replacing pipes with those in compliance to current regulations. A not sealed fume channelisation can be noxious to health.	
The stove is at its highest power but does not heat up.	Ambient temperature reached.	The stove is at its minimum value. Increase the desired ambient temperature.	
Stove running and display showing "Smoke Overtemperature"	Reached fume outlet limit temperature	The stove runs at minimum. NO PROBLEM!	
The stove's smoke duct produces condensation	Low smoke temperature	Check that the flue is not clogged.	
		Increase stove power to minimum (pellet drop and fan revs).	
		Install condensation collection cup.	
Stove running and display showing "SERVICE"	Routine maintenance alert (it does not block the system)	When this flashing message appears upon start-up, it means that the preset operating hours have elapsed before maintenance. Contact the service centre.	

Brand: **CADEL**				
Model: **FRAME 9 T2**				
Derived models: **FRAME 9 T2 - FRAME 9 UP T2 - QUASIMODO 9 UP-TWIN T2 FREEPOINT: MODO 9 T2 -MODO 9 BI-FLUX T2**				
EU Standard: EN 16510-1:2022 / EN 16510-2-6:2022				
GENERAL	Appliance Type (tightness)	Type	CC50	
	Continuous (CON) or intermittent (INT) operation	CON / INT	CON	
	Fuel type		Pellet	
	Fuel dimensions		Ø6 L=3÷40	
	Environmental classification stars DM.186 (IT)		5 *	
	Energy class (scale A++/G)		A+	
	Energy efficiency index		126	EEI
	Seasonal space heating efficiency		85	ηS
NOMINAL	Nominal heat input	Pinputnom	9,9	kW
	Nominal heat output	Pnom	9,0	kW
	Nominal space heat output	PSHnom	9,0	kW
	Nominal water heat output	PWnom	_	kW
	Fuel consumption at nominal heat output	kg/hnom	2,0	kg/h
	Cycle load at nominal heat output	Autnom		kg
	Cycle duration at nominal heat output	ηnom		min
	Efficiency at nominal heat output	ηnom	90	%
	CO2 at nominal heat output	CO2nom	9,1	%
	CO (%) at 13% O2 at nominal heat output	CO%nom (13% O2)	0,01	% (13% O2)
	CO at 13% O2 at nominal heat output	COnom (13% O2)	125	mg/m3 (13% O2)
	NOx at 13% O2 at nominal heat output	NOxnom (13% O2)	120	mg/m3 (13% O2)
	OGC at 13% O2 at nominal heat output	OGCnom (13% O2)	2	mg/m3 (13% O2)
	PM at 13% O2 at nominal heat output	PMnom (13% O2)	15	mg/m3 (13% O2)
	Flue gas outlet temperature at nominal heat output**	Tsnom	143	°C
	Minimum flue draught at nominal heat output***	pnom	11	Pa
	Flue gas mass flow at nominal heat output	ϕf,g nom	7,1	g/s
REDUCED	Partial load heat input	Pinputpart	3,8	kW
	Partial load heat output	Ppart	3,5	kW
	Partial space heat output	PSHpart	3,5	kW
	Partial load water heat output	PWpart	_	kW
	Fuel consumption at partial load heat output	kg/hpart	0,8	kg/h
	Cycle load at partial heat output	Autnom		kg
	Cycle duration at partial heat output	ηnom		min
	Efficiency at part load heat output	ηpart	91	%
	CO2 at partial load heat output	CO2part	5,4	%
	CO (%) at 13% O2 at partial load heat output	CO%part (13% O2)	0,012	% (13% O2)
	CO at 13% O2 at partial load heat output	COpart (13% O2)	140	mg/m3 (13% O2)
	NOx at 13% O2 at part load heat output	NOxpart (13% O2)	99	mg/m3 (13% O2)
	OGC at 13% O2 at part load heat output	OGCpart (13% O2)	2	mg/m3 (13% O2)
	PM at 13 % O2 at part load heat output	PMpart (13% O2)	20	mg/m3 (13% O2)
	Flue gas outlet temperature at part load heat output**	Tspart	90	°C
	Minimum flue draught at partial load heat output***	ppart	11	Pa
	Flue gas mass flow at part load heat output	ϕf,g nom	4,7	g/s
INSTALLATION	Chimney designation	Tclass	T200G	
	Maximum load of a chimney over the appliance	mchim	10	kg
	Standing air loss	Vh		m3/h
	Air heating outlet diameter			mm
	Heatable volume (with respective requirement of 20/35/55 W/m3)		252	m3
	Minimum distance to combustible materials (rear)	dR	200	mm
	Minimum distance to combustible materials (side)	dS	200	mm
	Minimum distance to combustible materials (bottom)	dB	0	mm
	Minimum distance to combustible materials (ceiling)	dC	750	mm
	Minimum distance to non-combustible walls	dnon	_	mm
	Added protective insulation	s	_	mm
	Thermal conductivity additional insulation	λd	_	W/mK
	Minimum distance to combustible materials (radiant front)	dP	1000	mm
	Minimum distance to combustible materials (radiant bottom)	dF	0	mm
	Minimum distance to combustible materials (radiant side)	dL	0	mm

ELECTRICAL CONNECTION	Electrical consumption at nominal heat output	elmax	114	W
	Electrical consumption at part load heat output	elmin	40	W
	Maximum electric power input	Wmax	316	W
	Electrical consumption at standby	elSB	1,0	W
	Power supply voltage - frequency	E - f	230-50	V - Hz
HYDRO	Boiler liters content	Boilervol		
	Permissible maximum water operating pressure	pW		
	Max setting temperature boiler	TH2Oset		
** Flue gas temperature at the appliance outlet, to be used in the chimney sizing calculation (according to EN 13384-1)				
***Consider a minimum draught of 2 Pa in the EN 13384-1 chimney dimensioning calculations				

Brand: **CADEL**				
Model: **FRAME 9 T2**				
DIMENSIONS	Width of the appliance	W	73,4	mm
	Depth of the appliance	L	53	mm
	Height of the appliance	H	78	mm
	Mass of the appliance	m	105	kg
	Pellet tank capacity*	Tankkg	15	kg
	Pellet tank autonomy at nominal heat output*	Autnom		h
	Pellet tank autonomy at partial load heat output*	Autpart		h
	Ventilation air intake section (cm2)		80	cm2
	Combustion air inlet diameter (mm)		60	mm
	Diameter of the flue gas outlet	dout	80	mm
* Values that can vary due to the used combustible				

Brand: **CADEL**				
Model: **FRAME 9 UP-TWIN T2**				
DIMENSIONS	Width of the appliance	W	73,4	mm
	Depth of the appliance	L	53	mm
	Height of the appliance	H	78	mm
	Mass of the appliance	m	108	kg
	Pellet tank capacity*	Tankkg	15	kg
	Pellet tank autonomy at nominal heat output*	Autnom		h
	Pellet tank autonomy at partial load heat output*	Autpart		h
	Ventilation air intake section (cm2)		80	cm2
	Combustion air inlet diameter (mm)		60	mm
	Diameter of the flue gas outlet	dout	80	mm
* Values that can vary due to the used combustible				

Brand: **CADEL**				
Model: **QUASIMODO 9 UP-TWIN T2**				
DIMENSIONS	Width of the appliance	W	70	mm
	Depth of the appliance	L	58	mm
	Height of the appliance	H	56	mm
	Mass of the appliance	m	95	kg
	Pellet tank capacity*	Tankkg	15	kg
	Pellet tank autonomy at nominal heat output*	Autnom		h
	Pellet tank autonomy at partial load heat output*	Autpart		h
	Ventilation air intake section (cm2)		80	cm2
	Combustion air inlet diameter (mm)		60	mm
	Diameter of the flue gas outlet	dout	80	mm
* Values that can vary due to the used combustible				

Brand: **FreePoint**				
Model: **MODO 9 T2**				
DIMENSIONS	Width of the appliance	W	70	mm
	Depth of the appliance	L	58	mm
	Height of the appliance	H	56	mm
	Mass of the appliance	m	94	kg
	Pellet tank capacity*	Tankkg	11,5	kg
	Pellet tank autonomy at nominal heat output*	Autnom		h
	Pellet tank autonomy at partial load heat output*	Autpart		h
	Ventilation air intake section (cm2)		80	cm2
	Combustion air inlet diameter (mm)		60	mm
	Diameter of the flue gas outlet	dout	80	mm
* Values that can vary due to the used combustible				
Brand: **FreePoint**				
Model: **MODO 9 BI-FLUX T2**				
DIMENSIONS	Width of the appliance	W	70	mm
	Depth of the appliance	L	58	mm
	Height of the appliance	H	56	mm
	Mass of the appliance	m	95	kg
	Pellet tank capacity*	Tankkg	11,5	kg
	Pellet tank autonomy at nominal heat output*	Autnom		h
	Pellet tank autonomy at partial load heat output*	Autpart		h
	Ventilation air intake section (cm2)		80	cm2
	Combustion air inlet diameter (mm)		60	mm
	Diameter of the flue gas outlet	dout	80	mm
* Values that can vary due to the used combustible				

15 TECHNICAL DOCUMENTATION FOR LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATIONS (EU) 2015/1185 - (EU) 2015/1186 (PRODUCT FICHE)

Manufacturer	**CADEL srl - Via Martiri delle Libertà 74 - 31025 Santa Lucia di Piave (TV) - Italy**		
Trademak: model identifier	**CADEL: FRAME 9 T2 - FRAME 9 UP T2 - QUASIMODO 9 UP-TWIN T2 FREEPOINT: MODO 9 T2 -MODO 9 BI-FLUX T2**		
Description	**Pellet stove**		
Indirect heating functionality	**No**		
Direct heat output	**9 kW**		
Indirect heat output	**- kW**		
CPR harmonised standard	**EN 16510-1:2022 - EN 16510-2-6:2022**		
Notified body	**KIWA S.p.a.(N.B.0476)**		
Preferred fuel (unique)	Compressed wood with moisture content < 12 %	**YES**	
	Wood logs with moisture content ≤ 25 %	**NO**	
	Other woody biomass	**NO**	
η_s		**85**	%
EEI		**126**	-
Energy Efficiency Class (A++ to G scale)		**A+**	
Space heating emissions at nominal heat output	PM (al 13% O_2)	**15**	mg/Nm^3
	OGC (al 13% O_2)	**2**	mg/Nm^3
	CO (al 13% O_2)	**125**	mg/Nm^3
	NO_x (al 13% O_2)	**120**	mg/Nm^3
Space heating emissions at minimum heat output *Only required if correction factors F(2) or F(3) are applied*	PM (al 13% O_2)	**20**	mg/Nm^3
	OGC (al 13% O_2)	**2**	mg/Nm^3
	CO (al 13% O_2)	**140**	mg/Nm^3
	NO_x (al 13% O_2)	**99**	mg/Nm^3
Heat output	Nominal heat output (P_{nom})	**9**	kW
	Minimum heat output (indicative) (P_{min})	**3.5**	kW
Useful efficiency (NCV as received)	Useful efficiency at nominal heat output ($\eta_{th,nom}$)	**90**	%
	Useful efficiency at minimum heat output (indicative) ($\eta_{th,min}$)	**91**	%
Auxiliary electricity consumption	At nominal heat output (el_{max})	**0,114**	kW
	At minimum heat output (el_{min})	**0,040**	kW
	In standby mode (el_{sb})	**0,001**	kW
Type of heat output/room temperature control (select one)	Single stage heat output, no room temperature control	**NO**	
	Two or more manual stages, no room temperature control	**NO**	
	With mechanic thermostat room temperature control	**NO**	
	With electronic room temperature control	**NO**	
	With electronic room temperature control plus day timer	**NO**	
	With electronic room temperature control plus week timer	**YES**	
Other control options (multiple selections possible)	Room temperature control, with presence detection	**NO**	
	Room temperature control, with open window detection	**NO**	
	With distance control option	**NO**	
Permanent pilot flame power requirement	Pilot flame power requirement (if applicable) (P_{pilot})	**N.A.**	kW
Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product.			
Issue date: 21.07.2025	Legal Representative	CADEL s.r.l. Via Foresto Sud, 7 - 31026 SANTA LUCIA DI PIAVE (TV) Tel. 0438 738489 - Fax 0438 73343 Partita IVA 03241180265 R.E.A. TV 227865 - Reg. Soc. Trib. TV 185949	

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