USER MANUALPELLET THERMOSTOVE





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RIVER IDRO 16 T2 - 23 T2 - 23H₂O T2 - MIRA 16 T2 - 22 T2 TESIS 16-23 AIRTIGHT T2 - MAYA IDRO 16 T2 - 24 T2

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(EU) 20	15/1185 - (EU) 2015/1186 (PRODUCT FI	CHE)
••••	••••••	35

1 MANUAL SIMBOLOGY

	USER
*	AUTHORISED TECHNICIAN (ONLY to interpret or the Stove-manufacturer or the Authorized Technician of Technical Assistance Service approved by the Stove-manufacturer)
T. II.	SPECIALIZED STOVE-REPAIRER
Q	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.

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 14785: "Residential space heating appliances fired by wood pellets"

EN 13240: "Room heaters fired by solid fuel."

EN 13229: "Inset appliances including open fires fired by solid fuels"

EN 12815: "Residential cookers fired by solid fuel"

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 guickly 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.





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 perfor-

ming 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

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 room's 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 incréased with 1 mefer.

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 sec-

• The chilliney flue flust be cleaned, since the soot and unbuilt on 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 firemen. **DO NOT** use water to extinguish the fire

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.

CAUTIONS - WARRANTY CONDITIONS 4

INFORMATION 4.1

- 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.

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 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

The duration, conditions and limitations of CADEL S.r.l. can be found on the guarantee card enclosed with the device.

The company guarantees the product, with the exception of elements subject to normal wear listed below, for a period of **2 (two) years** from the date of purchase attested by:

- a document to serve as proof of purchase (invoice and/or receipt) that shows the name of the vendor and the date on which the purchase was made;
- forwarding of the completed certificate of guarantee within 8 days of purchase.

Furthermore, the product must be installed and started by specialised personnel who must, where provided, issue a declaration of conformity of the plant and of the proper functioning of the product, for the warranty to be valid and effective.

We recommend testing the product before completion with the relative finishes (claddings, painting of walls, etc.).

Installations not meeting the current standards, improper use and lack of maintenance as expected by the manufacturer, void the product warranty.

The guarantee is valid on the condition that the instructions and warnings contained in the use and maintenance manual are observed, and therefore the product is used correctly.

The replacement of the entire system or the repair of one of its components does not extend the guarantee period, and the original expiry date remains unchanged.

The guarantee covers the replacement or free repair of parts recognised as being faulty at source due to manufacturing defects.

To benefit from the guarantee, in the event of a fault, the customer must have the guarantee certificate and present it with the proof of purchase document to the Technical Assistance Office.

The guarantee does not cover malfunctions and/or damage to the appliance that arise due to the following causes:

- Damage caused during transportation or relocation.
- All parts that develop faults due to negligence or improper use, incorrect maintenance, installation that does not comply with the manufacturer's instructions (always refer to the installation and use manual provided with the appliance).
- Incorrect dimensioning with regards to the use or faults in the installation or failure to adopt the necessary devices to guarantee proper execution.
- Improper overheating of the equipment, use of fuels not conforming to the types and quantities indicated in the instructions provided.
- Further damage caused by incorrect user interventions in an attempt to fix the initial fault.
- Worsening of the damage due to the continued use of the equipment by the user, once the defect has been noticed.
- In the presence of a boiler, any corrosions, incrustations or breaks caused by water flow, condensation, hardness or acidity of the water, improperly performed descaling treatments, lack of water, mud or limescale deposits.
- Inefficiency of chimneys, flues or parts of the plant affecting the equipment.
- Damage caused by tampering with the appliance, atmospheric agents, natural disasters, vandalism, electrical discharges, fires, faults in the electric and/or hydraulic system.
- Failure to have the stove cleaned on an annual basis by an authorised technician or qualified personnel will result in the <u>loss</u> of the warranty.

Also excluded from this guarantee are:

- Parts subject to normal wear such as gaskets, glass, claddings and cast iron grids, painted, chrome-plated or gilded parts, handles and electric cables, bulbs, indicator lights, knobs, all parts which can be removed from the hearth.
- Variations in colour of the painted or ceramic/serpentine parts and craquelure ceramics as they are natural characteristics of the material and product use.
- Masonry work.
- Plant parts (if present) not supplied by the manufacturer.

Any technical interventions on the product to eliminate the above-said defects and consequent damages must be agreed upon with the Technical Assistance Centre, who reserves the right to accept the relative appointment or not. However, said interventions will not be carried out under warranty but as technical assistance to be granted at part of any eventual and specific agreed condi-

tions and in accordance with the fee in force for the work to be carried out.

The user will also be charged for any costs incurred to remedy the incorrect technical interventions, tampering or damage to the appliance, not attributable to original faults.

Save for the legal or regulatory limits, the guarantee does not cover the containment of atmospheric and acoustic pollution.

The company declines all liability for any damage which may be caused, directly or indirectly, to persons, animals or objects as a consequence of non compliance with any prescription specified in the manual, especially warnings regarding installation, use and maintenance of the appliance.

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.

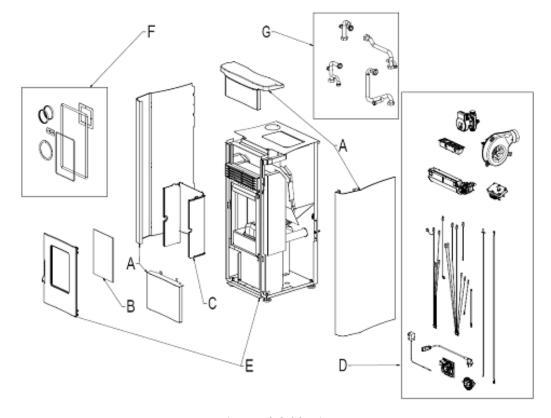


Fig. 1 - Exploded drawing

LEGENDA	WHERE TO DISPOSE	MATERIALS	
		Metal	
A OUTED CLADDING	If there is any, to be disposed of separately based on	Glass	
A. OUTER CLADDING	the material used:	Tiles or ceramics	
		Stone	
		Glass ceramic (fire door): to be disposed of with	
B. GLASS DOORS	If there is any, to be disposed of separately based on	inert or mixed waste	
D. GLASS DOORS	the material used:	Tempered glass (oven door): to be disposed of with	
		glass	
		Metal	
	If there is any, to be disposed of separately based on the material used:	Refractory materials	
		Insulating panels	
C. INTERIOR CLADDING		Vermiculite	
		Insulation, vermiculite and refractory materials	
		that have come into contact with flames or exhaust	
		gases (dispose of in mixed waste)	
D. ELECTRIC AND ELECTRO-	To be disposed of separately in authorised centres,	Wiring, motors, fans, circulators, display panels,	
NIC COMPONENTS	as indicated in the WEEE directive 2012/19/EU and	sensors ignition plug, electronic cards, batteries.	
	the relative national transposition.	sensors ignition plug, electronic cards, batteries.	
E. METAL STRUCTURE	To be disposed of separately with metal	-	
F. COMPONENTS THAT CAN-	To be disposed of with mixed waste	E.G.: Gaskets, rube piping, silicone or fibres, plastic.	
NOT BE RECYCLED	To be disposed of with finked waste		
	Piping, fittings, expansion vessel, valves. If there	Copper	
G. HYDRAULIC COMPONENTS	are any, to be disposed of separately based on the	Brass	
G. ITTORAGEIC COMITORENTS	material they are made of:	Stainless steel	
	material tiley ale made of.	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 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	50 FOR	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	20 PAP	SORTED waste collection PAPER Check the instructions of the competent body
- APPLIANCE BAG - BAG OF ACCESSORIES - BUBBLE WRAP - PROTECTIVE SHEET - LABELS	POLYETHYLENE LD PE 04	04 PE-LD	SORTED waste collection PLASTIC Check the instructions of the competent body
- POLYSTYRENE - FOAM PEANUTS	POLYSTYRENE PS 6	06 PS	SORTED waste collection PLASTIC Check the instructions of the competent body
- STRAP - TAPE	POLYPROPYLENE PP 5	05 PP	SORTED waste collection PLASTIC Check the instructions of the competent body.
- SCREWS - STAPLES FOR STRAP - FASTENING BRACKET	IRON FE 40	40 FE	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
		802.11 b/g/n (802.11n up to 150 Mbps)
Wi-Fi	Protocols	A-MPDU and A-MSDU aggregation and 0.4 μs guard in-
VVI-FI		terval support
	Frequency range	2412 ~ 2484 MHz
	Protocols	Bluetooth v4.2 BR/EDR and BLE specification
		NZIF receiver with -97 dBm sensitivity
Bluetooth	Radio	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/

USE 8

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.

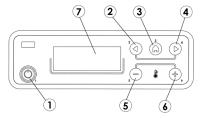






Fig. 6 - Display

Fig. 7 - Display

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 °)		

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.
- b Cleaning (displayed only when the boiler is switched off).
- c Feed screw loading (displayed only when the boiler is switched off).
- d Tones.
- e External thermostat (activation).
- f Auto Eco (activation).
- g Eco-Shutdown T (default 10 minutes).

- h Pump on T (default 50°C).
- i Auxiliary boiler (default deactivated).
- j Pellet recipe.
- k Smoke rpm % ventilation.
- I Maximum power (1-5 default 5).
- m Components test (displayed only when the boiler is switched off)
- n "Chimney sweep" function (activated only when the boiler is switched on, for field emissions test).
- o System configuration.
- p Season.
- g Technical menu.

NOTE: Some of the items listed above cannot be activated in certain "system configurations".

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)
- 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 "0n" with the + keys.
- Press "menu" to confirm and "esc" to exit.

c - Feed screw loading

Allows to fill the pellets loading system. It can only be activated with the boiler switched off, it displays an 180" countdown after which the feed screw stops automatically, as when exiting the menu.

To select "Feed 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 "Feed screw loading" using the arrows.
- Press "menu" to confirm.
- Select "Enable" with the + keys.
- Press "menu" to confirm and "esc" to exit.

d - Tones

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 "tones" using the arrows.
- Press "menu" to confirm.
- Select "0n" with the + keys.
- Press "menu" to confirm and "esc" to exit.

e - External thermostat (see relative chapter)

EXTERNAL THERMOSTAT (not included with the boiler, it is the user's responsibility)

The stove can also be temperature-controlled by an external room thermostat. It is positioned centrally with respect to the room where the appliance is installed and ensures greater consistency between the heating temperature requested of the stove and the actual temperature the stove supplies.

Connect the wires from the external thermostat (INSTALLER MANUAL)

Once the thermostat is connected, it must be enabled.

Do so as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows.
- Select by pressing "menu".
- Scroll once again to "External thermostat" using the arrows.
- Select by pressing "menu".
- Press the + buttons. Select "On" to activate the external thermostat.
- Press the "menu" button to confirm.
- Press the "esc" button to exit.

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" using the arrows.
- Press "menu" to confirm.
- Select "0n" with the + keys.
- Press "menu" to confirm and "esc" to exit.

a - Eco Shutdown t

To select the Eco - shutdown t function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Eco shutdown t" using the arrows.
- Press "menu" to confirm.
- Enter the minutes with the + keys.
- Press "menu" to confirm and "esc" to exit.

h - Pump On T

This menu item allows to adjust the pump activation temperature.

To select the Pump On T function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Pump On T" using the arrows.
- Press "menu" to confirm.
- Modify the $^{\circ}$ C with the + keys.
- Press "menu" to confirm and "esc" to exit

i - Auxiliary boiler

An additional (optional) module must be installed to allow an auxiliary boiler to be switched on should the stove be off or in alarm conditions. By default, this function is disabled; if necessary, activate it through the settings menu.

j - 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

k - Smoke rpm % ventilation

To change the parameter act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Smoke rpm variation" using the arrows.
- Press "menu" to confirm.
- Modify the % with the + keys.
- Press "menu" to confirm and "esc" to exit

I - Maximum power

It allows to set the maximum flame limit at which the boiler can operate to reach the set temperature target. To change the power act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Maximum power" using the arrows.
- Press "menu" to confirm.
- Change the power from 01 to 05 with the + keys
- Press "menu" to confirm and "esc" to exit

m - Components test

It can only be carried out with the boiler switched off, it allows to select the components to be tested:

- **Spark plug:** it is turned on for a fixed time of 1 minute during which the panel displays the countdown seconds.
- **Feed screw:** it is powered for a fixed time of 1 minute during which the panel displays the countdown seconds.
- **Extractor:** it is activated at 2500 rpm for a fixed time of 1 minute during which the panel displays the countdown seconds.
- **Exchanger:** it allows to carry out the test in V5 for a fixed time of 1 minute during which the panel displays the countdown seconds.
- **Pump:** it is activated for a fixed time of 10 seconds during which the panel displays the countdown.
- **3 way:** the 3 way valve is activated for a fixed time of 1 minute during which the panel displays the countdown seconds.
- **Cleaner**: is activated for 2 cleaning cycles.

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

n - Chimney sweep function

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. During this interval the thermostat/puffer/room set point/H20 set point are not taken into account, only the safety shutdown at 85°C remains active. At any time the technician can interrupt this stage by quickly pressing the on/off key.

To activate the "Chimney sweep" function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to the "Chimney sweep" function using the arrows.
- Press "menu" to confirm.
- Select "On" with the + keys (Off by default)
- Press "menu" to confirm and "esc" to exit

o - System configuration

To change the system configuration act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "System configuration" using the arrows.
- Press "menu" to confirm.
- Change the configuration from 01 to 05 with the + keys
- Press "menu" to confirm and "esc" to exit.

p - Season

In configurations 2 and 3, by enabling the "summer" function, the deviation of the 3-way valve to the heating system is inhibited in order to prevent the radiators from heating up, therefore the flow is always directed towards the domestic hot water (DHW) - if envisaged.

By activating the "summer" option one automatically enables the auto-eco function (it cannot be deactivated). The room probe/external thermostat are not taken into account.

To change the function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Season" using the arrows.
- Press "menu" to confirm.
- Select "Summer" or "Winter" with the + keys.
- Press "menu" to confirm and "esc" to exit.

q - Technical menu

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

To intervene on the "technical menu" act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Technical menu" using the arrows.
- Press "menu" to confirm.
- Select "Product Type", "Service", "Parameters", "DHW Parameters", "Meters memories", "Enable fan" and "Puffer data" with the + keys.
- Press "menu" to confirm and "esc" to exit

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 AO1 "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 "Set Water T" or "Exchanger Speed"
- Press "menu" to access the selected option.
- Modify with the + keys.
- Press "menu" to confirm and "esc" to exit.



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 V. Speed - this function allows selecting the desired speed for the ambient fans from 1 to 5. **Water temperature** - temperature adjustable from 30° to 80°

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	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	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							

NOTES FOR TIMER OPERATION 8.13

- 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)

To activate the "Auto Eco" mode and adjust the time refer see section f-q.

The possibility to adjust the "**ECO shutdown t**" 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** shutdown procedure is activated automatically when all the power demand devices involved in the "system configuration" are satisfied: room probe/external thermostat, flow switch, puffer thermostat/ntc (10 k Ω B3435) or boiler thermostat/ ntc (10 k Ω ß3435). If all devices present are satisfied the "**ECO** shutdown t" time decrease starts (by default 10 minutes, it can be changed within the "Settings menu"). During this stage the panel displays **ON** with a small flame and alternately Chrono (of active) - Eco active. The minutes indicating the countdown for the Eco Stop are shown at the top of the display. The flame goes into P1 and stays there until the programmed "Eco shutdown t" time has elapsed and if the conditions are still satisfied, it goes into the shutdown stage. The ECO switch off countdown resets if one of the devices boosts power again.

When switch off starts the panel displays: **Off - Eco Active** - small flashing flame.

Once the boiler has reached the off condition, the panel displays **OFF-ECO** with the extinguished flame symbol.

To restart from ECO the following conditions must be satisfied simultaneously:

- Power demand
- After 5 minutes from the beginning of shutdown.
- TH20 < TSetH20.
- If the domestic hot water (**DHW**) demands power if envisaged the first 5' are ignored and the boiler restarts as needed.

NOTE: In configuration 4 - 5 the Auto Eco mode is enabled automatically. Even when one sets the "summer" function in configuration 2 - 3 it is enabled automatically. In the cases where it is designed to be active, it is not possible to deactivate the mode.

SLEEP FUNCTION (MAIN MENU)

The sleep function is activated only when the boiler is switched on and allows to guickly 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. 12 - 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 PELLETS RECIPE (SEE SECTION J)



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

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.

8.17 SMOKE RPM VARIATION (SEE SECTION K)



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

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.

8.18 CHIMNEY SWEEP FUNCTION (FOR MAINTENANCE TECHNICIANS ONLY) - SEE SECTION N

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.
- 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. 13 - Wrong opening of the pellets bag



Fig. 14 - 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.

10 SAFETY DEVICES AND ALARMS

The product is supplied with the following safety devices

10.1 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

10.2 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.

10.3 CONTACT THERMOSTAT IN THE FUEL HOPPER

If the temperature exceeds the preset safety level, it immediately shuts down boiler operation.

10.4 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.

10.5 SMOKE FAN

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

10.6 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.

10.7 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.

10.8 FAILED START-UP

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

10.9 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.

10.10 CONTACT THERMOSTAT IN THE BOILER

If the temperature exceeds the preset safety level, it immediately shuts down boiler operation.

10.11 WATER TEMPERATURE PROBE

If the water temperature approaches the shutdown temperature (85°C) the probe makes the boiler perform the "OFF Stand-by" automatic shutdown.

10.12 ANTIFREEZE FUNCTION

If the probe in the boiler detects a water temperature of less than 5°C, the circulation pump is automatically activated to prevent the system from freezing.

10.13 PUMP ANTI-SEIZURE FUNCTION

If the pump is not used for prolonged periods, it is activated periodically for a few seconds to prevent it from seizing up.

TAMPERING WITH THE SAFETY DEVICES IS PROHIBITED

If the product is NOT used as described in this instruction manual, the manufacturer declines all liability for any damage caused to persons and property. The manufacturer furthermore refuses to accept responsibility for damage to persons and property arising from the failure to observe all the rules contained in the manual and in particular:



- All the necessary measures and/or precautions must be adopted when performing maintenance, cleaning and repairs.
- Do not tamper with the safety devices.
- Do not remove the safety devices.
- Connect the product to an efficient smoke expulsion system.
- Verify that the room in which the appliance will be installed is adequately ventilated. The product can be started-up and the automatic function of the probe restored only after having eliminated the cause that triggered the safety system. This manual will help you understand which anomaly has occurred, and explain how to intervene according to the alarm message displayed on the appliance.

10.14 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. A sound signal is not envisioned for alarms A01-A02 only so to PANEL ALERTnot disturb the user in the event of pellets running out in the hopper during the night.

PANEL ALERT	TYPE OF PROBLEM	SOLUTION
A01	The fire does not ignite.	Check whether the brazier is clean / level of pellets in the hopper.
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 (SET-TINGS menu - Pellets recipe). 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 - Pellets recipe).
A05 Pressure switches alarm	Smoke pressure switch intervention or water pressure insufficient.	Verify chimney obstruction / door opening or hydraulic system pressure.
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.
A19	Water probe faulty.	Water probe disconnected / interrupted / defective / not recognised.
A20	Puffer probe alarm.	Puffer probe disconnected / interrupted / defective / not recognised.
A21	Triac alarm	The triac of the electronic card has stalled. Replace the card.
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.

10.15 ALARM RESET

NEVER open the stove door while it is starting up initially or switching off, as the pellets are still burning at this point and there may be volatile substances.



ATTENTION!

If smoke flows into the room from the appliance or the flue during operation or initial ignition, switch off the device, air out the room, and immediately contact the installation/customer service technician.

To reset the alarm, you must hold down key 1 (ESC) for a few seconds. The stove performs a check to determine whether what caused the alarm is still present.

If this is the case, the alarm will be shown again, otherwise the stove will switch OFF. If the alarm persists, contact a service centre.

11 ROUTINE MAINTENANCE

11.1 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.

11.2 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 OPTI-MAL 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.

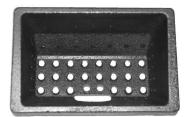


Fig. 15 - Example of cleanly brazier

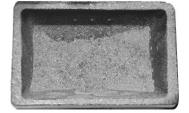


Fig. 16 - Example of dirty brazier

11.3 HOPPER CLEANING

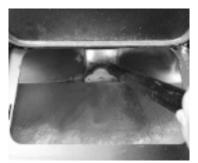


Fig. 17 - Hopper cleaning

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. 17**).

11.4 ASH DRAWER CLEANING RIVER IDRO - MIRA - TESIS

Press door "H" to the bottom right and open it. Turn the handle of door "G" to the right and open it downwards.
Pull out and empty ash drawer "D". Remove any ash residue from the compartment before reinserting the drawer. Experience and pellet quality will determine the frequency of the ash drawer cleaning. In any case, it is advisable not to exceed 2 or 3 days.
When cleaning the ash drawer, we recommend removing part "C" near the brazier and using a vacuum cleaner nozzle to remove any ash build-up.

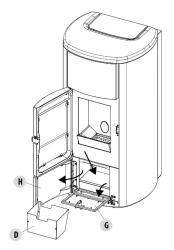


Fig. 18 - Drawer removal

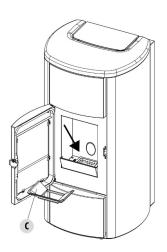


Fig. 19 - Brazier removal

11.5 ASH DRAWER CLEANING MAYA

Lift part "C" from its place and remove brazier "B". Use the vacuum nozzle to clean away any ash from the area under the brazier. We recommend performing this operation every 2-3 days depending on what type of pellet is being used.

Open the panel "H". Turn the handle of door "G" to the right and open it by moving it downwards.

Remove and empty ash pan "D". Wipe away any residual ash before reinserting the pan. Your experience and the quality of the pellets will determine the ash pan cleaning frequency. However, it is recommended not to exceed 7 days. After removing and emptying the ash pan "D" also clean the lower part of the compartment (see arrow "Q").

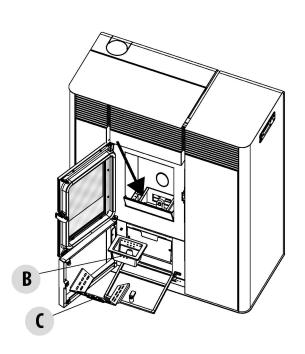


Fig. 20 - Brazier removal

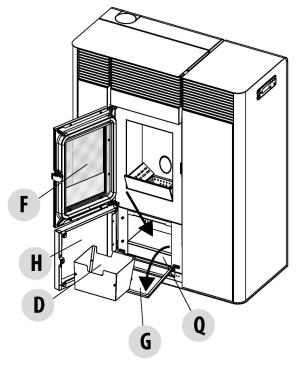


Fig. 21 - Drawer removal



Attention! When cleaning is completed, remember to put part "C", brazier "B" and ash pan "D" back in place and close all the doors ("G", "H", "F")back up again.

11.6 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.

11.7 GENERAL CLEANING

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

11.8 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.

11.9 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.

11.10 GASKET REPLACEMENT

In case of deterioration of fire door, hopper or fume chamber gaskets, it is necessary to replace them by an autorized technician in order to guarantee the good running of the stove.



Use exclusively original spare parts.

11.11 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!

11.12 CLEANING THE EXCHANGER AND THE COMPARTMENT UNDER THE BRAZIER EVERY 2/3 DAYS

Cleaning the exchanger and the compartment under the brazier is a simple task but very important to always maintain the declared performance.

As such, we recommend cleaning the internal exchanger every 2-3 days, following these simple tasks in order:

- **Activate "CLEANING" function** when the boiler is off, press menu, select "Settings", use the <> arrows to select "Cleaning", confirm with "Menu", active cleaning "ON" using the +- keys. This procedure activates the smoke extraction fan to the maximum, in order to expel the soot that is stirred up while cleaning the exchanger.
- **Clean the pipe unit** Using lever "A", located under the tank cover, vigorously shake the turbulators 5-6 times. This removes the soot deposited on the exchanger smoke ducts during normal boiler operation.
- **Disable the "CLEANING" function** this function is automatically disabled after two minutes. If you need to stop this function sooner, press the "Esc" key.
- Clean the smoke conveyor compartment(fig. on next page)
- The boiler is equipped with a removable ash drawer to collect any soot and ash build-up (previous page).
- Once cleaning is complete, close the cover and ash drawer.



If this cleaning is not done every 2-3 days, the stove could become clogged with ash after several hours of operation and go into alarm conditions.



Fig. 22 - Turbulator cleaning lever (Idro Prince³ 16-23-23 H2O, Aquos³ 16-23-23 H2O, Idron 16-22 Airtight, Hidrofire 22.8)

11.13 PIPE UNIT CLEANING

For improved boiler performance, once a month it is necessary to clean the pipes inside the combustion chamber. Open the firebox door and use the supplied brush to clean the 5 pipes located at the top inside the combustion chamber. Do this several times so that the ash deposited inside these pipes falls into the lower area around the brazier.

Use a vacuum cleaner to remove all the fallen material.

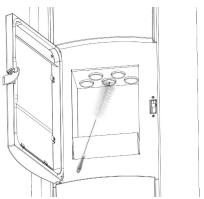


Fig. 23 - Pipe unit cleaning

11.14 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. 24 - 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.

11.15 CHECKING THE INNER COMPONENTS



ATTENTION!

Only qualified personnel with technical knowledge of combustion and electricity can check the inner electrical-mechanical components.

	PARTS/FREQUENCY	2-3 DAYS	7 DAYS	1 YEAR
	Brazier*			
LINIDED THE HEEDIC	Ash pan			
UNDER THE USER'S RESPONSIBILITY	Glass			
NEST ONSIDILITY	Lower compartment			
	Turbulators			
	Complete heat exchanger			
	Smoke duct			
	Door gasket			
	Internal parts			
	Flue			
BY THE QUALIFIED TECHNICIAN	Circulation pump			
DI THE QUALITIED TECHNICIAN	Plate heat exchanger			
	Plumbing components			
	Electro-mechanical components			
	Overpressure silicon damper for combustion chamber			
	Door closure operation			

* THE FREQUENCY OF CLEANING SHOULD BE INCREASED IF THE PELLETS ARE OF POOR QUALITY.

We recommend this maintenance be done annually (with a scheduled service contract), which focuses on a visual and functional check of the inner components. Below is a summary of the checks and/or service that are essential for proper product operation.

- Gear motor
- Smoke extraction fan
- Smoke probe
- Ignition spark plug
- Pellet/water automatically rearming thermostat
- Room/water probe
- Motherboard
- Panel-board protective fuses
- Wiring

12 IN CASE OF ANOMALY

12.1 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 stove is without power supply	Check if the plug is connected.	2
	Burned protection fuse in the electric socket	Replace the protection fuses in the electric socket (3.15A-250V).	*
The control display does not switch on	Faulty control display	Replace the control display.	*
	Faulty flat cable	Replace the flat cable.	*
	Faulty electronic board	Replace the mother board.	*
	Empty hopper	Full the hopper.	2
	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.	
Pellets do not reach the combustion	Clogged stove	Fume chamber cleaning	
chamber	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.	*

PROBLEM	CAUSE	SOLUTION	INTERVENTION
Flames are weak and orange coloured, pellets do not burn properly and the glass blackens The exchanger fan continues to turn even though the stove has just cooled	Empty hopper	Full the hopper.	2
	Auger blocked by a foreign object (for example nails)	Clean the auger.	*
	Bad quality pellets	Try other types of pellets.	2
The fire extinguish	Pellet drop value too low "phase 1"	Adjust the pellet loading.	*
and the stove stops	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.	TL II
	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.	TIE II
	Not sufficient com- bustion 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)	*
orange coloured,	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.	T. It
properly and the	Obstructed stove	Provide immediately at the inner cleaning of the stove.	2
	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.	*
	Faulty fume tempe- rature probe	Replace the fume probe.	*
even though the	Faulty mother board	Replace the mother board.	*
	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 IT

PROBLEM	CAUSE	SOLUTION	INTERVENTION
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 Overteperature"	Reached fume outlet limit temperature	The stove runs at minimum. NO PROBLEM!	2
The stove's smoke duct produces condensation		Check that the flue is not clogged.	*
	Low smoke tempe- rature	Increase stove power to minimum (pellet drop and fan revs).	2
		Install condensation collection cup.	*
Stove running and display showing "SERVICE"	Routine maintenan- ce 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.	*

12.2 PROBLEM SOLVING (THERMOSTOVE)

PROBLEM	POSSIBLE CAUSES	SOLUTIONS	INTERVENTION
	Thermostat set to the minimum	Reset the thermostat temperature.	2
In automatic position, the boiler always works at maximum power	Room thermostat in a position that always detects cold.	Change the position of the thermostat	*
	Faulty temperature detection probe.	Check and, if necessary, replace the probe	*
	Faulty circuit board	Replace board	*
The boiler does not start	Power failure	Make sure the power cable is plugged in and the main switch is in the "I" position.	2
	Blown fuse	Replace the fuse.	*
	Clogged smoke duct or exhaust	Clean the smoke exhaust and/or smoke duct.	TI. II.
	Water temperature probe has tripped	Call customer service	*

PROBLEM	POSSIBLE CAUSES	SOLUTIONS	INTERVENTION
	Improper combustion adjustment.	Check recipe and parameters.	*
Temperature does	Dirty boiler/system	Check and clean the boiler.	*
the boiler working	Insufficient boiler power.	Make sure the boiler is appropriately proportional to the system requirements.	2
	Poor quality pellets	Use quality pellets	2
	BOILER EXTERNAL CONDENSATE	Adjust the boiler to a higher temperature	2
WATER ON FLOOR	NO ANTI-CONDENSA- TION VALVE	INSTALL ANTI-CONDENSATION VALVE	*
	LEAK FROM PIPES	CHECK CLOSURE of the PIPE FITTINGS	*
	Room thermostat (local or remote) adjusted too low. If remote thermostat, check whether it is defective.	Adjust it to a higher temperature. Replace it if necessary (if remote)	*
Radiators cold in the winter	The circulator does not turn because it is blocked.	Release the circulator by removing the cap and turning the shaft with a screwdriver	*
	The circulator does not turn.	Check its electrical connections, replace it if necessary	*
	Air inside the radiators	Bleed the radiators	2
No HEATING water	Circulator (pump) blocked	Release the circulator (pump)	*
comes out	NO PRESSURE in SYSTEM	INCREASE PRESSURE and CHECK FOR LEAKS	2 %
Noise and gurgling	Air in the system	Vent the air and fill the system	*
DOMESTIC HOT WATER DOES NOT COME OUT	3-WAY VALVE BLOCKED	CHECK 3-WAY VALVE	*

TECHNICAL DOCUMENTATION FOR LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATIONS (EU) 2015/1185 - (EU) 2015/1186 (PRODUCT FICHE) 13

Manufacturer	CADEL srl - Via Foresto Sud 7 - 31025 Santa Lucia di	Piave (TV)	- Italy
Trademak: model identifier	CADEL: RIVER IDRO 16 T2 - MAYA IDRO 16 T2 FREEPOINT: TESIS 16 AIRTIGHT T2 PEGASO: MIRA 16 T2		
Description	Pellet stove		
Indirect heating functionality	Yes		-
Direct heat output	3,1 kW		
Indirect heat output	12,9 kW		
CPR harmonised standard	EN 14785		
Notified body	KIWA CERMET ITALIA S.P.A.(N.B.0476)		
Notifica Body	Compressed wood with moisture content < 12 %	VFS	
Preferred fuel (unique)	Wood logs with moisture content $\leq 25 \%$		
Treferred fuer (unique)	Other woody biomass		
n.	Other woody biolilass	YES NO NO 89 132 A++ 13 2 100 95 18 3 150 94 16 4,9 93,7 96,7 0,117 0,076 0,002 NO	%
η _s EEI			70
Energy Efficiency Class (A++ to G scale)			_
Lifety Lificiency class (A++ to d scale)	PM (al 13% O ₂)		mg/Nm³
	OGC (al 13% 02)		mg/Nm ³
Space heating emissions at nominal heat output	CO (al 13% 0 ₂)	YES NO NO 89 132 A++ 13 2 100 95 18 3 150 94 16 4,9 93,7 96,7 0,117 0,076 0,002 NO NO NO NO NO NO NO NO NO NO NO	mg/Nm ³
•			
	NO _x (al 13% O ₂)		mg/Nm³
C	PM (al 13% 0 ₂)	i e	mg/Nm³
Space heating emissions at minimum heat output	OGC (al 13% O ₂)		mg/Nm³
Only required if correction factors $F(2)$ or $F(3)$ are applied	CO (al 13% O ₂)		mg/Nm ³
	NO _x (al 13% O ₂)		mg/Nm³
Heat output	Nominal heat output (Pnom)		kW
Treat output	Minimum heat output (indicative) (Pmin)		kW
	Useful efficiency at nominal heat output (nth,nom)	93,7	%
Useful efficiency (NCV as received)	Useful efficiency at minimum heat output (indicative) (ղեհ,min)	YES NO NO 89 132 A++ 13 2 100 95 18 3 150 94 16 4,9 93,7 96,7 0,017 0,076 0,002 NO NO NO NO NO NO	%
	At nominal heat output (elmax)	0,117	kW
Auxiliary electricity consumption	At minimum heat output (elmin)	0,076	kW
, , ,	In standby mode (elsb)	YES NO NO 89 132 A++ 13 2 100 95 18 3 150 94 16 4,9 93,7 96,7 0,017 0,002 NO NO NO NO NO NO	kW
	Single stage heat output, no room temperature control	NO	
	Two or more manual stages, no room temperature control	NO	
T (1	With mechanic thermostat room temperature control	NO	
Type of heat output/room temperature control (select	With electronic room temperature control		
one)	With electronic room temperature control plus day timer		
	With electronic room temperature control plus week timer	NO NO NO 89 132 A++ 13 2 100 95 18 3 150 94 16 4,9 93,7 96,7 0,117 0,076 0,002 NO	
	Room temperature control, with presence detection	NO	
Other control options (multiple selections possible)	Room temperature control, with open window detection		
	With distance control option	NO	
Permanent pilot flame power requirement	Pilot flame power requirement (if applicable) (Ppilot)		kW
• •	sembly and maintenance indicated in the manual accor		•
Issue date: 13.09.2022	Legal Representative Via Foresto Sud, 7 - 31025 SAHT UNIO DI PLAVE (TV) 161,0438 738869 - Fax 1448 73343 161,0438 738699 - Fax 1448 73343 161,0438 73869 - Fax 1448 73343 161,0438 73869 - Fax 1448 73343 161,0438 73869 - Fax 1448 7388		

TECHNICAL DOCUMENTATION FOR LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATIONS (EU) 2015/1185 - (EU) 2015/1186 (PRODUCT FICHE) 14

Manufacturer	CADEL srl - Via Foresto Sud 7 - 31025 Santa Lucia di	Piave (TV)	- Italy
	CADEL: RIVER IDRO 23 T2 - RIVER IDRO 23 H20 T2 - N		
Trademak: model identifier	FREEPOINT: TESIS 23 AIRTIGHT T2 PEGASO:		
Description	Pellet stove		
Indirect heating functionality	Yes		
Direct heat output	4,4 kW		
Indirect heat output	18 kW		
CPR harmonised standard	EN 14785		
Notified body	KIWA CERMET ITALIA S.P.A.(N.B.0476)		
	Compressed wood with moisture content < 12 %	YES	
Preferred fuel (unique)	Wood logs with moisture content ≤ 25 %	NO	
4. 7	Other woody biomass	NO	
n _s	, cancer and a second s	YES NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO YES NO NO YES N.A.	%
η _s EEI			-
Energy Efficiency Class (A++ to G scale)			
analy, amalency class (if i to distance)	PM (al 13% O ₂)		mg/Nm³
	OGC (al 13% 0 ₂)	YES NO NO NO NO NO NO NO YES NO NO YES N.A.	mg/Nm ³
Space heating emissions at nominal heat output	CO (al 13% 0 ₂)		mg/Nm ³
	NO _x (al 13% O ₂)	YES NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO YES NO NO YES N.A.	mg/Nm ³
	PM (al 13% 02)		mg/Nm ³
Space heating emissions at minimum heat output	OGC (al 13% 0 ₂)		mg/Nm ³
Only required if correction factors F(2) or F(3) are applied	CO (al 13% 02)		mg/Nm ³
only required if correction factors $r(z)$ of $r(z)$ are applied		150 94 22,4 4,9	mg/Nm ³
	NO _x (al 13% O ₂)		
Heat output	Nominal heat output (Pnom)		kW
·	Minimum heat output (indicative) (Pmin)	YES NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO YES NO NO YES N.A.	kW
H (1 (C : (NC) : 1)	Useful efficiency at nominal heat output (\(\eta_{\text{h,nom}}\)	92	%
Useful efficiency (NCV as received)	Useful efficiency at minimum heat output (indicative) (ղեհ,min)	YES NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO VES NO NO YES N.A.	%
	At nominal heat output (elmax)		kW
Auxiliary electricity consumption	At minimum heat output (elmin)	YES NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO NO NO NO NO NO NO VES NO NO YES N.A.	kW
	In standby mode (elsb)		kW
	Single stage heat output, no room temperature control	NO	
	Two or more manual stages, no room temperature control	NO	
T (1	With mechanic thermostat room temperature control	YES NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO NO NO NO NO NO NO NO VES NO NO YES NA.	
Type of heat output/room temperature control (select	With electronic room temperature control		
one)	With electronic room temperature control plus day timer		
	With electronic room temperature control plus week timer	NO NO 88 130 A++ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO NO NO NO NO NO NO NO VES NO NO YES N.A.	
	Room temperature control, with presence detection	NO	
Other control autions (moultiple and attended to the	Room temperature control, with open window detec-		
Other control options (multiple selections possible)	tion		
	With distance control option		
Permanent pilot flame power requirement	Pilot flame power requirement (if applicable) (Ppilot)	N.A.	kW
Observe the specific precautions for installation, ass product.	sembly and maintenance indicated in the manual acco	mpanying	the
Issue date: 13.09.2022	Legal Representative Via Foresto Sud, 7 - 31026 SANT, LlyCla DI PIAVE (TV) Via Foresto Sud, 7 - 31026 SANT, LlyCla DI PIAVE (TV) TOT, 0438 738869 - Fax, 0438 73343 Partita INA 0.326 1 1 1 0 2 6 5 R.E.A. V 227665 - Reg. 566 - Trib. TV 185949		

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

Manufacturer	CADEL srl - Via Foresto Sud 7 - 31025 Santa Lucia di	Piave (TV)) - Italy
	CADEL:		
Trademak: model identifier	FREEPOINT: PEGASO: MIRA 22 T2		
Description	Pellet stove		
Indirect heating functionality	Yes		
Direct heat output	4,4 kW		
Indirect heat output	18 kW		
CPR harmonised standard	EN 14785		
Notified body	KIWA CERMET ITALIA S.P.A.(N.B.0476)		
	Compressed wood with moisture content < 12 %	YES	
Preferred fuel (unique)	Wood logs with moisture content ≤ 25 %	YES NO NO 88 129 A+ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,0117 0,076 0,002 NO NO NO NO NO NO	
	Other woody biomass		
n _c	Total Woody Biolinuss		%
η _s EEI			-
Energy Efficiency Class (A++ to G scale)			
Elicity Elicitics (1835 (A 1 1 to d scale)	PM (al 13% O ₂)		mg/Nm³
	OGC (al 13% 0 ₂)		mg/Nm ³
Space heating emissions at nominal heat output Space heating emissions at minimum heat output Only required if correction factors F(2) or F(3) are applied	CO (al 13% 02)		mg/Nm ³
	N0x (al 13% 02)	YES NO NO 88 129 A+ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO NO NO NO NO NO NO NO NO	mg/Nm ³
	PM (al 13% 02)		mg/Nm ³
Chaco heating emissions at minimum heat output	OGC (al 13% 02)		mg/Nm ³
			mg/Nm ³
Only required if correction factors F(2) or F(3) are applied	CO (al 13% O ₂)	YES NO NO 88 129 A+ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,076 0,002 NO NO NO NO NO NO NO NO NO NO NO	
	NO _x (al 13% O ₂)		mg/Nm³
Heat output	Nominal heat output (Pnom)		kW
'	Minimum heat output (indicative) (Pmin)		kW
H (I (C : (NC))	Useful efficiency at nominal heat output (\(\eta_{\text{th},nom}\)	92	%
Useful efficiency (NCV as received)	Useful efficiency at minimum heat output (indicative) (ղեհ,min)	YES NO NO 88 129 A+ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO	%
	At nominal heat output (elmax)		kW
Auxiliary electricity consumption	At minimum heat output (elmin)	0,076	kW
	In standby mode (elsb)	YES NO NO 88 129 A+ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,076 0,002 NO NO NO NO NO NO	kW
	Single stage heat output, no room temperature control	NO	
	Two or more manual stages, no room temperature control	NO	
- 4	With mechanic thermostat room temperature control	NO	
Type of heat output/room temperature control (select	With electronic room temperature control		
one)	With electronic room temperature control plus day timer		
	With electronic room temperature control plus week	NO NO 88 129 A+ 14 2 136 99 18 3 150 94 22,4 4,9 92 96,7 0,117 0,076 0,002 NO	
	timer Room tomporature control with presence detection	NΛ	
	Room temperature control, with presence detection Room temperature control, with open window detec-		
Other control options (multiple selections possible)	· · · · · · · · · · · · · · · · · · ·	NO	
	tion With distance control option	NΩ	
Darmanent nilet flame neuer requirement	Vith distance control option Pilot flame power requirement (if applicable) (Ppilot)		kW
Permanent pilot flame power requirement	rnot name power requirement (ii applicable) (Ppilot)	iv.A.	KVV
Observe the specific precautions for installation, ass product.	sembly and maintenance indicated in the manual acco	mpanying	the
Issue date: 13.09.2022	Legal Representative Via Foresto Sud, 7 - 31025 SANT, Lycia Di Plave (TV) TOTA 0438 7388 69 - Fax (1438 73343 Partita IMA 0.329 1 ft 8.0 2 6 5 R.E.A. 17 227 665 - Reg. 568 - Trib. TV 185949		



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