

JØTUL PF 861 S

JØTUL PF 861 S
Manual Version P02

EN - Installation, operation and maintenance manual
IT - Manuale di installazione, uso e manutenzione

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Jøtul PF 861 S

EN - Before use, read the general instructions of installation, use and maintenance carefully
IT - Prima dell'uso, leggere attentamente le istruzioni generali di installazione, uso e manutenzione



The instruction manual provided with the product must be kept throughout the entire period of the products use. Le istruzioni fornite devono essere conservate per tutta la vita del prodotto.

INFORMATION ON SOLID FUEL HEATING APPLIANCES

According to Regulation (EU) n. 1185/2015

Manufacturer	Jotul
Model identifier(s)	PF 861 S
Brand	Jøtul
Indirect heating functionality	No
Direct heat output	8,2 kW
Indirect heat output	kW

EN



Fuel type	Preferred fuel (only one):	Other suitable fuel(s):	η_s [%]	Space heating emissions at nominal heat output (*)				Space heating emissions at minimum heat output (*) (**)			
				PM	OGC	CO	NOx	PM	OGC	CO	NOx
				[x] mg/Nm ³ at 13%O ₂				[x] mg/Nm ³ at 13%O ₂			
Wood logs with moisture content ≤ 25 %	No	No									
Compressed wood with moisture content < 12 %	Yes	No	89,7	14	4	78	96	9	2	187	145

Characteristics when operating with the preferred fuel only					
Item	Symbol	Value	Unit	Type of heat output/room temperature control (select one)	
Heat output				single stage heat output, no room temperature control	No
Nominal heat output	P_{nom}	8,2	kW	two or more manual stages, no room temperature control	No
Minimum heat output (indicative)	P_{part}	3,6	kW	with mechanic thermostat room temperature control	No
Useful efficiency (NCV as received)				con controllo elettronico della temperatura ambiente	No
Useful efficiency at nominal heat output	$\eta_{th,nom}$	92,2	%	with electronic room temperature control plus day timer	No
Useful efficiency at minimum heat output (indicative)	$\eta_{th,part}$	92,6	%	with electronic room temperature control plus week timer	Yes
Auxiliary electricity consumption				Other control options (multiple selections possible)	
At nominal heat output	e_{lmax}	0,024	kW	room temperature control, with open window detection	No
At minimum heat output	e_{lmin}	0,010	kW	room temperature control, with presence detection	No
In standby mode	e_{lSB}	0,003	kW	with distance control option	Yes

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

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

Model: **PF 861 S**

P_{nom}	8,2 kW	P_{part}	3,6 kW
$P_{SH\ nom}$	8,2 kW	$P_{SH\ part}$	3,6 kW
$P_{W\ nom}$	-- kW	$P_{W\ part}$	-- kW
η_{nom}	92,2 %	η_{part}	92,6 %
$CO_{nom(13\%O_2)}$	78 mg/Nm³	$CO_{part(13\%O_2)}$	187 mg/Nm³
$NO_{x\ nom(13\%O_2)}$	86 mg/Nm³	$NO_{x\ part(13\%O_2)}$	145 mg/Nm³
$OGC_{nom(13\%O_2)}$	4 mg/Nm³	$OGC_{part(13\%O_2)}$	2 mg/Nm³
$PM_{nom(13\%O_2)}$	14 mg/Nm³	$PM_{part(13\%O_2)}$	9 mg/Nm³
p_{nom}	9 Pa	p_{part}	10 Pa
p_w	-- kPa (-- bar)	T_{class}	T 200 G
T_{snom}	137 °C	W_{max}	245 W
E	230 V	f	50 Hz

Funzionamento Continuo
Continuous operation
Fonctionnement Continu
Funcionamento Continuo
Continue Werking
kontinuierlicher Betrieb

(CON)

Distanza minima da materiali combustibili
Minimum distance from combustible materials
Distance minimale par rapport aux matériaux combustibles
Distancia mínima de materiales combustibles
Minimumafstand tot brandbare materialen
Mindestabstand zu brennbaren Materialien

d_R	200mm
d_S	200mm
d_C	750mm
d_P	1500mm
d_F	800mm
d_L	800mm
d_B	30mm

Usare solo il combustibile raccomandato:

Use only recommended fuel:
Utiliser seulement les combustibles recommandés:
Use solo el combustible recomendado:
Gebruik alleen de aanbevolen brandstof:
Nur empfohlene Brennmaterial verwenden:

Pellet di legno
Wood pellet
Granulee de bois
Pellet de madera
Houtpellet
Holzpellets
Ø 6 mm

L'apparecchio non è adatto al funzionamento in una canna fumaria condivisa / The appliance is not suitable for operation in a shared chimney / L'appareil n'est pas adapté à une utilisation dans une cheminée partagée / El aparato no es apto para funcionar en una chimenea compartida / Het apparaat is niet geschikt voor gebruik in een gedeelde schoorsteen / Das Gerät ist nicht für den Betrieb in einem gemeinsamen Kamin geeignet.



Leggere e seguire le istruzioni per l'uso / Read and follow the operating manual / Lire et suivre le mode d'emploi / Leay respete le manual de operation / Lees en volg de handleiding voor bediening / Bitte lesen und befolgen Sie die Montage und Nutzungsanweisungen

D.o.P. n° (Notified Body 0476)

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

Type: CM 50

Year of production: 2025



JØTUL
Jøtul AS - P.o. box 1411, N-1602 Fredrikstad - Norway



C299U1001

EXPLANATION OF THE IDENTIFICATION PLATE

1 Type, number or model designation to identify the product

2 **Table of values:**

P_{int}	Maximum input power	$P_{int\ part}$	Partial input power
P_{nom}	Nominal heat output	P_{part}	Partial heat output
$P_{SH\ nom}$	Nominal heat output to air	$P_{SH\ part}$	Partial heat output to air
$P_{W\ nom}$	Nominal heat output to water	$P_{W\ part}$	Partial heat output to water
η_{nom}	Appliance efficiency at nominal heat output	η_{part}	Efficiency of the appliance at partial heat output
CO_{nom}	CO emissions at 13% oxygen content at nominal heat output ossigeno alla potenza termica nominale	CO_{part}	CO2 emissions at 13% oxygen content at partial heat output
$NO_{x\ nom}$	NOx emissions at 13% oxygen content at nominal heat output	$NO_{x\ part}$	NOx emissions at 13% oxygen content at partial heat output
OGC_{nom}	Hydrocarbon emissions at 13% oxygen content at nominal heat output	OGC_{part}	Hydrocarbon emissions at 13% oxygen content at partial heat output
PM_{nom}	Particulate emissions at 13% oxygen content at nominal heat output	PM_{part}	Particulate matter emissions at 13% oxygen content at partial heat output
p_{nom}	Minimum flue draught at nominal heat output	p_{part}	Minimum flue draught at partial heat output
$p_{W\ nom}$	Minimum flue draught at nominal heat output	T_{class}	Chimney designation according to the appropriate chimney standard
$T_{s\ nom}$	Flue outlet temperature at nominal heat output	$T_{fg\ nom}$	Flue gas temperature at nominal power
W_{max}	Maximum electrical power absorbed	E	Supply voltage
f	Frequency		

3 Product operation type

4 **Minimum distance from combustible materials:**

d_R	Minimum distances from the rear to flammable material	200 mm
d_S	Minimum distances from the sides to flammable material	200 mm
d_C	Minimum distances from the top to flammable material	750 mm
d_P	Minimum distances from the front to flammable material	1500 mm
d_F	Minimum distances from the front to flammable material	800 mm
d_L	Minimum distances from the front to flammable material	800 mm
d_B	Minimum distances from the bottom (excluding the feet) to flammable material	30 mm

5 Recommended fuels

6 Warning

7 Warning

8 Document number DOP and (Notified Body)

9 Applicable standards

10 Product classification

11 Year of production

12 Environmental classification

13 CE conformity mark - The numbers indicate the year of issue of the certificate

14 Serial number

15 Registered trademark

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PREFACE

Dear Customer, We would like to thank you for choosing one of our stoves.

We invite you to read this manual carefully, before starting installation and use, so that you are able to benefit from all of its characteristics better and in full safety. It contains all necessary information for correct installation, start-up, operation, cleaning, maintenance, etc.

Keep this manual in a suitable location, do not discard it without reading it.

Incorrect installation, maintenance and improper use of the product relieve the Manufacturer of all liability deriving from use of the stove.

For further information and requirements contact your Jøtul-authorized Technical Assistance Centre.

All rights reserved. No part of this instructions manual can be reproduced or transmitted through any electronic or mechanical means, including photocopies, recordings or any other storage system, for other purposes that are not exclusively use by the buyer's staff, without the express written consent of the Manufacturer.

THE CLEAN AIR ACT 1993 AND SMOKE CONTROL AREAS

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area.

It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an "unauthorised fuel" for use within a smoke control area unless it is used in an "exempt" appliance ("exempted" from the controls which generally apply in the smoke control area).

In England appliances are exempted by publication on a list by the Secretary of State in accordance with changes made to sections 20 and 21 of the Clean Air Act 1993 by section 15 of the Deregulation Act 2015. Similarly in Scotland appliances are exempted by publication on a list by Scottish Ministers under section 50 of the Regulatory Reform (Scotland) Act 2014.

In Wales and Northern Ireland these are authorised by regulations made by Welsh Ministers and by the Department of the Environment respectively.

Further information on the requirements of the Clean Air Act can be found here at:

<https://www.gov.uk/smoke-control-area-rules>

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements.

The PF 861 S has been recommended as suitable for use in smoke control areas when burning wood pellets.

1 IDENTIFICATION

1.1 STOVE IDENTIFICATION

Type of product: pellet stove

Trademark: Jøtul

Model: PF 861 S

1.2 MANUFACTURER IDENTIFICATION

Manufacturer: Jøtul AS

P.o. box 1411, N-1602 Fredrikstad, Norway

T. + 47 69 35 90 00

post@jotul.no

www.jotul.com

1.3 REFERENCE STANDARDS

The stoves PF 861 S that this manual refers to are compliant with the regulation:

- 305/2011: Construction Product Regulation

and the following directives:

2014/30/UE: Electromagnetic Compatibility Directive

2014/35/UE: Low Voltage Directive

2017/2102/UE: RoHS Directive

2009/125/CE: Eco-Design Requirements for Energy-Related Products Directive

2014/53/UE: RED Directive (Radio Equipment Directive)

And the following harmonised standards and/or technical specifications have been applied:

- EN 55014-1

- EN 61000-3-2

- EN 61000-3-3

- EN 55014-2

- EN 62233

- EN 60335-1

- EN 60335-2-102

- EN 16510-1

- EN 16510-2-6

- EN 50581

- ETSI EN 300220-1

All local regulations, including those referring to national and European standards, must be respected when installing the appliance.

2 WARRANTY

Read the warranty conditions contained below.

2.1 WARRANTY CONDITIONS

For a user to be able to take advantage of the legal guarantee as per Directive 1999/44/EC, they must scrupulously abide by the guidelines given in this instruction manual, and must, in particular:

- Always work according to the instruction manual.
- Make sure that the necessary maintenance work is always performed according to the installation, operation and maintenance manual provided by the manufacturer.
- The stove should be operated only by persons having the required knowledge about stove operation, according to the instruction manual provided.

Failure to adhere to guidelines concerning the requirements given in this instruction manual immediately voids the guarantee.

The following are not covered by warranty:

- the combustion chamber refractory stones;
- the door glass;
- the gaskets;
- the paint job;
- the stainless steel or cast iron combustion grille;
- the resistance;
- the Majolica cladding;
- the aesthetic parts;
- any damages caused by unsuitable installation and/or use of the product and/or shortcomings on the part of the customer.

The use of poor quality pellet or any other unauthorised fuel may damage the product's components, cause its warranty to be voided and as a result eliminate the connected manufacturer liability.

It is therefore recommended to use good quality pellet that fulfils the requirements listed in the dedicated chapter.

All damages caused by transportation are not recognised, for this reason it is recommended to carefully check goods upon receipt, immediately warning the reseller of any damage.

2.2 INFO AND PROBLEMS

Dealers authorised by Jotul use a trained Technical Service Centre network to meet the Customer's requirements. For any information or request for assistance, please contact your Dealer or the Technical Service Centre.

3 GENERAL INFORMATION

3.1 SUPPLY AND SAFE-KEEPING

The manual is supplied in printed format.

Keep this manual safe, with the appliance, so that the user can consult it easily.

The manual is an integral part, for safety reasons, therefore:

- it must be kept intact (in full). If it gets lost or ruined it is necessary to immediately ask for a new copy;
- it must be kept with the appliance until demolition (including relocation, sale, rental, lease, etc....).

The Manufacturer will not be held liable for improper use of the appliance and/or damage caused by operations that are not set forth in the technical documentation.

3.2 LANGUAGE

The original manual was written in Italian.

Any translations into additional languages must be carried out based on the original instructions.

The Manufacturer is liable for the information contained in the original instructions; the translations into different languages cannot be fully verified therefore if any inconsistency arises it will be necessary to follow the text in the original language or contact our Technical Documentation Office.

3.3 SYMBOLS USED IN THE MANUAL

In this manual, the most important tips, instructions or recommendations are marked with one of the following symbols:

SYMBOL	DEFINITION
	This symbol is used to identify particularly important information in the manual. This information also concerns the safety of users involved in using the appliance
	This symbol is used to identify important warnings for the safety of the user and/or the appliance

3.4 SUPPLIED ACCESSORIES

Inside the hopper of the stove you will find a compensation ring (Fig. 3.1) to be used in case you wish to take advantage of the 80 mm upper flue gas outlet without having to remove the coaxial pipe.



Fig. 3.1

4 SAFETY MEASURES

4.1 GENERAL SAFETY WARNINGS

-  Read this instructions manual carefully before appliance installation and use. Failure to observe the instructions set forth herein can void the warranty and/or cause damage to property and/or people.
-  Appliance installation, system verification, operation verification and initial calibration must be carried out exclusively by qualified and authorised staff.
-  The appliance needs to be connected to a single chimney that guarantees the draught declared by the Manufacturer and observes the installation regulations that apply to the installation site.
-  The room where the appliance is installed must have an air intake.
-  The appliance must not be used as an incinerator or differently from its purpose.
-  Do not use any fuel other than fire pellet. It is strictly forbidden to use liquid fuels.
-  It is prohibited to use the appliance with the door or ash drawer open or the glass broken.
-  Do not touch the hot surfaces of the appliance without suitable protective equipment, to avoid getting burned. When it is running, the outer surfaces reach hot temperatures to the touch.
-  The appliance may be used by children of at least 8 years of age and by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, provided that they are supervised or have received instructions concerning the safe use of the appliance and an understanding of the hazards involved.
-  It is forbidden to make unauthorised changes to the appliance.
-  Before using the appliance it is necessary to know the position and function of the controls.
-  If the chimney catches fire you must call the fire brigade.
-  Only use original spare parts. Any tampering and/or replacements that have not been authorised by Jotul can pose a danger to the user's safety.
-  In the event of particularly adverse weather conditions, the safety systems could intervene and switch off the appliance. In any case, do not disable the safety systems.
-  For direct connection to the grid, a device must be provided to ensure disconnection from the grid, with a contact opening distance allowing

complete disconnection under the conditions of overvoltage category III, in accordance with the installation rules.

4.2 RESIDUAL RISKS

The appliance was designed so as to guarantee the user's essential safety requirements.

Safety was integrated into the appliance's design and construction as much as possible.

For every residual risk there is a description of the risk and the zone or part that is applies to (unless the risk applies to the entire appliance overall). Procedure-related information is also provided on how to avoid the risk and on the correct use of the personal protective equipment required by and made compulsory by the Manufacturer.

RESIDUAL RISK	DESCRIPTION PROCEDURE-RELATED INFORMATION
Risk of burns 	When the appliance is running, it may reach high temperatures to the touch, especially on its external surfaces. Take care to avoid burns and use the specific tools if necessary. Use the glove if present to open the pellet lid for loading operations

5 DESCRIPTION OF THE APPLIANCE

5.1 INTENDED USE

The appliance in question is intended for domestic and/ or commercial space heating by burning wood pellets; any fuel other than wood pellets is not permitted.

The appliance is designed and built to work safely if:

- it is installed by qualified staff according to the specific standards;
- it is used within the limits declared in the contract and herein;
- the operating manual procedures are followed;
- routine maintenance is carried out according to the times and methods set forth;
- extraordinary maintenance is promptly carried out when needed;
- safety devices are not removed and/or bypassed.



This appliance must be intended for the use it was specifically designed for.

5.2 REASONABLY FORESEEABLE INCORRECT USE

Reasonably foreseeable incorrect use is listed below:

- using the appliance as an incinerator;
- using the appliance with fuel other than pellet;
- using the appliance with liquid fuels;
- using the appliance with the door open and the ash drawer out.

Any use of the appliance other than intended must be preventively authorised in writing by the Manufacturer. Without said written authorisation, the use is considered “improper”. Any contractual and non-contractual liability of the manufacturer is excluded for damages to persons, animals or property due to installation and maintenance adjustment errors and improper use.

5.3 OBLIGATIONS AND FORBIDDEN ACTIONS

5.3.1 Obligations

The user must:

- read this instructions manual before performing any operation on the appliance;
- the appliance must not be used by children under the age of 8 or by people with reduced physical, sensorial or mental capacities or without experience or without the necessary knowledge, and always with supervision;
- do not use the appliance improperly, i.e. for uses other than those described in the “INTENDED USE” paragraph;
- it is strictly forbidden to use liquid fuels;
- keep objects that are not heat and/or flame-resistant at a safe distance;
- only and exclusively load the appliance with pellet with the characteristics described herein;
- connect the appliance to a regulation chimney;
- provide a suitable system for the supply of combustion air (air intake or intake duct for watertight appliances);
- always perform maintenance with the appliance off and cold;
- perform cleaning activities at the frequency stated herein;
- use original parts recommended by the Manufacturer.

5.3.2 Forbidden actions

The user must never:

- remove or change the safety devices without authorisation;
- perform operations or manoeuvres of his/her own initiative that are not part of his/her job description, meaning that he/she might jeopardise his/her own safety and that of others;
- use fuels other than pellet and those allowed for lighting;
- use the appliance as an incinerator;
- use flammable or explosive substances near the appliance during operation;
- use the appliance with the door open and/or with the glass ruined or broken;
- close the combustion air and smoke outlet openings, whatsoever;
- use the appliance to dry laundry;
- replace or change some of the appliance parts.

5.4 CHARACTERISTICS OF THE FUEL

Wood pellet is a fuel made of pressed wood sawdust, often recovered from processing scraps of carpentries. The material used cannot contain any extraneous substance such as, for example, glue, lacquer or synthetic substances.

The sawdust, once it has been dried and cleaned from impurities, is pressed using a die with holes: as a result of high pressure, the

sawdust heats up by activating the natural wood binders; this way the pellet maintains its shape even without adding artificial substances.

Wood pellet density varies based on the type of wood and can exceed that of natural wood by 1.5 - 2 times.

The cylinders have a diameter of 6 mm and a variable length between 10 and 40 mm.

Their density is equal to approximately 650 kg/m³. Due to their low water content (< 10%) they have a high energy content.

The UNI EN ISO 17225-2:2014 standard (that replaces the EN PLUS standard) defines pellet quality by specifying three classes: A1,

A2 and B. Maintain fuels and other flammables at a suitable distance.

Jotul recommends using wood pellet classified A1 and A2 according to the EN ISO 17225-2:2014 standard, or certified DIN PLUS

(more restrictive than the A1 class) or ONORM M 7135. Pellet may be light or dark coloured, it is normally bagged into bags that show the name of the producer, the main characteristics and classification according to standards.



Pellets must be transported and stored in a dry area. Upon contact with humidity they swell and become unusable.



Using fuel that is not compliant with the above will void the warranty.

5.5 DESCRIPTION OF OPERATION

The Jotul pellet stove PF 861 S is an automatic loading wood pellet heating appliance for domestic heating. The heat generated by the combustion of the pellets is diffused in the installation room by radiation.

The stove is controlled by an electronic control unit that manages the start-up, operation and shutdown phases and also includes many other functions for control, programming and safety.

The user can choose the operating power from 10 levels, or set the temperature to be maintained in the room. In this case the stove will manage the power to ensure maximum comfort. Among the functions of the electronic control unit there is also that of being able to program the startup and shutdown of the stove, setting the weekly chronothermostat.

All this can be done remotely, using the application available for your phone.

5.6 AUTOMATIC CLEANING SYSTEM

The stove is equipped with automatic brazier cleaning system. This means that there is no need to carry out daily manual cleaning of the brazier or every time the stove is lit. The automatic cleaning system is activated every time the stove is lit and after 6 hours of continuous operation. The cleaning cycle, which involves shutting down, automatic cleaning and restarting the stove, takes about 10 minutes. During this period the heating is guaranteed by the heat accumulated by the appliance itself.

Note: the times indicated are those set by default by the Manufacturer.

5.7 RECHARGE THE FUEL



Use only wood pellets, the characteristics shown in this manual.



During pellet loading prevent the pellet bag from coming into contact with hot surfaces.



It is not recommended to empty the pellet bag directly into the hopper to avoid depositing wood sawdust on the bottom of the hopper.

To load the pellets inside the hopper, proceed as described below:

STEP	ACTION
1	Open the pellet hopper cover
2	Pour the pellets into the hopper
3	Close the pellet hopper cover

5.8 USER TRAINING

Once installation is complete, the user must always be fully trained in the functions and characteristics of the stove by the technician authorized by Jotul to ensure optimal and safe use.

The training should cover the following topics:

- Description of the stove, its operation and basic settings.
- How to turn the stove on and off safely.
- Fuel storage and refilling.
- What to do in the event of an alarm, in particular that of "no ignition".
- How to clean the stove correctly and the importance of performing it on a regular basis.
- It is advisable to schedule the first annual maintenance.

5.9 SAFETY DEVICES

The stove has been designed and equipped with safety systems to minimize user risks.

It is equipped with the safety devices listed in the following table, which also intervene in case of failure of the electronic board.

ELEMENT	DESCRIPTION
Pellet tank thermostat	If the temperature exceeds the set safety value, it immediately stops the pellet loading motor and the stove is automatically switched off; to restart it, it is necessary to wait until it has cooled down
Pressure switch for closing combustion chamber door	If the door of the combustion chamber is not properly closed, it immediately stops the pellet loading motor; if it is not closed within 60 seconds, the stove switches off automatically

Electrical safety	In case of failure of the electrical components or wiring, the fuse and grounding keep the appliance safe. It is necessary that the electrical system of the house is up to standard, equipped with a grounding circuit and all the safety systems required by the standards
-------------------	--

It should be noted that the stove's operating program has been designed to stop stove operation in the event of malfunctions:

ANOMALIES	DESCRIPTION
High/low temperature in the combustion chamber	If the temperature probe at the smoke outlet detects temperatures that are too high, the stove is switched off and the relative alarm is displayed
Smoke fan break	If the fan stops, the electronic board blocks the supply of pellets and the alarm is displayed
Pellet feed gearmotor failure	If the gear motor fails, the product shuts down safely and the corresponding alarm is displayed
Cleaning system gear motor failure	If the gear motor fails, the product shuts down safely and the corresponding alarm is displayed
Temporary power failure	If a power failure occurs during operation, when the power returns the temperature in the combustion chamber is checked and, if necessary, the stove goes into cooling mode
No ignition	If no flame develops during the ignition phase, the stove goes into alarm

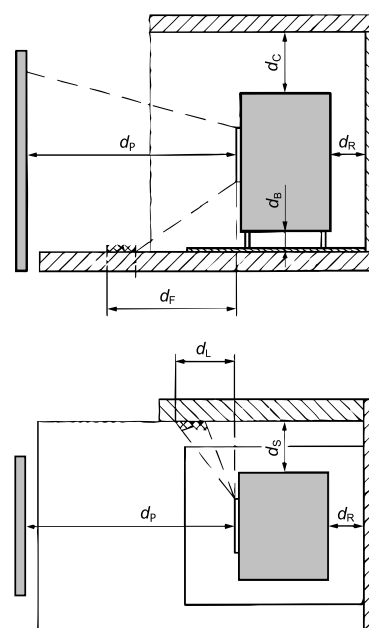


It is forbidden to tamper with the safety devices. Restarting the product is only possible after eliminating the cause that caused the intervention of the safety system. To understand which anomaly occurs, consult this manual which explains, depending on the alarm message that the device displays, how to intervene on it.



If the problem persists, contact the Support Service.

5.9.1 Minimum clearances from combustible materials



d_R	Rear	200 mm
d_S	Front / Sides	200 mm
d_C	Ceiling	750 mm
d_P	Front	1500 mm
d_F	Front to floor	800 mm
d_L	Lateral Radial	800 mm
d_B	Floor	30 mm
d_{non}	Minimum distances from not flammable walls	50 mm

6 SHIPPING AND INSTALLATION

6.1 SAFETY WARNINGS FOR TRANSPORTATION AND INSTALLATION



The appliance must be installed by a qualified technician, who must issue a declaration of conformity of the system to the purchaser, taking full responsibility for appliance installation and correct operation.



The appliance installation site must be chosen so that the generated heat can spread evenly throughout the rooms that you wish to heat.



The appliance needs to be connected to a single chimney that guarantees the draught declared by the Manufacturer and observes the installation regulations that apply to the installation site.



The room where the appliance is installed must have an air intake.



The air vent must be installed in such a way that it can not be blocked.

The Manufacturer will not be held liable for installation that is not compliant with the laws in force, incorrect air circulation in the rooms and inappropriate use of the appliance.

In particular, it is necessary:

- that the appliance be connected to a smoke evacuation system duly sized to guarantee the draught declared by the Manufacturer, that is tight and observes the distances from flammable materials;
- that there is a suitable combustion air intake in compliance with the type of installed product;
- that other installed combustion appliances or devices do not create a vacuum in the room where the appliance is installed;
- that the safety distances from flammable materials are observed.

Verification of system compatibility has a priority over any other assembly or installation operation.



Local administrative regulations and particular requirements of the authorities pertaining to the installation of combustion appliances, the air intake and the smoke evacuation system, may vary based on region or nation. Check with your local authorities if there are stricter laws than set forth herein.

6.1.1 Packaging

When the appliance arrives, check:

- that it is the model you ordered;
- that it has not been damaged during shipping.

Any complaints must be reported to the deliveryman (also on the delivery note) upon receipt.



Check the capacity of the floor before handling and positioning the appliance.



The appliance always needs to be handled vertically. Take extra care to protect the door and its glass against mechanical impact that could jeopardise their integrity.

To unpack the appliance, follow the procedure described below:

- 1) Remove the side straps by unscrewing the fixing screws
- 2) Remove the upper and side wooden cage
- 3) Remove any wrapping
- 4) Remove the appliance from the pallet and position the appliance in the chosen location, ensuring that it is compliant with the directions.



Use suitable equipment to remove the boards or wooden parts of packing.



The end user is responsible for disposing of the packaging in accordance with the laws in force in the country of installation.

6.2 SET-UPS FOR THE SMOKE EVACUATION SYSTEM



Be careful when building the smoke evacuation system and observe the regulations in force in the country where the appliance is installed.



The Manufacturer will not be held liable for incorrectly sized and non-regulation smoke evacuation systems.

6.2.1 Smoke ducts and fittings

The term smoke duct indicates all ducts that connect the combustion equipment to the chimney.

The following requirements need to be applied:

- observe product standard EN 1856-2;
- the horizontal sections must have a minimum slope of 3% upwards;
- the length of the horizontal section must be as minimum as possible, and its projection on the horizontal plane must not exceed 2 metres;
- changes in direction must not have an angle of more than 90° (45° bends are recommended);
- the number of direction changes, including the one necessary for insertion into the chimney, must not exceed 3;
- the cross section must have a constant diameter, the same from where it exits the firebox up to the fitting into the chimney;
- it is forbidden to use flexible metal and fibre cement pipes;
- the smoke ducts must not pass through rooms where the installation of combustion appliances is prohibited, rooms at risk of fire, fire compartmental rooms, rooms where there is a specific risk of fire, or spaces that cannot be inspected
- in any case, the smoke ducts must be sealed against combustion products and condensation, as well as insulated if they pass outside the installation room.
- the installation of manual draught adjustment devices is not permitted.
- provide the sampling point for measuring the draught and smoke analysis as per UNI10683 and UNI10389-2 standards

6.2.2 Chimney

The chimney is a particularly important element for correct stove operation.



The chimney must be sized so as to guarantee the draught declared by the Manufacturer.



Do not connect the stove to a collective chimney.

The chimney must be built applying the following regulations:

- it must observe product standard EN 1856-1;
- it must be made of materials that are suitable to guarantee resistance against normal mechanical, chemical and thermal stress and be correctly thermally insulated to limit the formation of condensation;
- it must be mainly vertical and not feature any bottlenecks along its entire length;
- it must be correctly spaced with an air gap and insulated from flammable materials;
- there must be a maximum of 2 changes in direction and angles must not exceed 45°;
- the chimney inside the home, however, must be

insulated and can be inserted into a skylight shaft, as long as it respects standards regarding placing inside a tube;

- the smoke conduit must be connected to the chimney using a "T" fitting with an inspection collection chamber for combustion residue and especially for collecting condensation.



It is necessary to check the safety distances that need to be observed when there are flammable materials and the type of insulating material that needs to be used is on the chimney data plate.



Use watertight pipes with silicone seals.

It is forbidden to use the discharge mounted directly on the wall or directed towards indoor spaces and any other type of discharge that is not set forth by the regulation in force in the country of installation (Note: in Italy only roof-discharge is allowed).

6.2.3 Chimney pot

The chimney pot, i.e. the top end of the chimney, must fulfil the following characteristics:

- the cross-section of the smoke outlet must be at least twice the internal cross-section of the chimney;
- it must stop water or snow from getting in;
- make sure the smoke is taken away even when there is wind (wind resistant chimney pot);
- the outlet height must be outside of the reflux zone (refer to national and local regulations to calculate the reflux zone);
- it must always be built at a distance from antennas or dishes, it must never be used as support.

6.3 INSTALLATION



For appliance installation and use it is necessary to observe all of the local, national and European laws and regulations.



Appliance installation and the preparation of the building work must observe the regulation in force in the country of installation (ITALY = UNI 10683).



The installation activities must be carried out by a technician that is qualified and/or authorised by the Manufacturer. The staff in charge of installation must issue a declaration of conformity of the system to the buyer, whereby they take full responsibility for the final installation and good operation of the installed product.



There shall be no liability on the part of Jotul if these precautions are not observed.

6.3.1 Requirements for the installation premises

The appliance installation room must be sufficiently ventilated. To fulfil this requisite it is necessary to equip the room with an air intake connected to the outdoors.



The installation room must have an air intake with a free cross-section of at least 80 cm² in case of boiler.



For installation in the presence of other combustion appliances or VMC system it is necessary to check the appliance for correct operation.

The appliance must be placed inside living quarters. It must never be installed outdoors. The volume of the room where it is installed must be suitable for the power of the appliance and, in any case, greater than 15 m³.



When extraction fans (example: extraction hoods) are used in the same room or space as the appliance, this can cause problems to appliance operation.



The appliance must be installed on a floor with suitable load capacity. If the existing position does not fulfil this requirement, it is necessary to take due measures (for example, using a load distribution plate).



Provide due insulation if the surface is made of flammable material.

If the side walls adjacent to the appliance are made of a flammable material, it will be necessary to position the appliance at least 30 cm from them.

If the floor that the appliance is standing on is flammable, we recommend duly insulating it. Objects and parts that are heat-sensitive or flammable cannot be stored near the appliance; in any case, keep such objects outside the area bounded by the minimum distances indicated above.

Appliance installation must guarantee easy access to clean the appliance, the exhaust ducts and the chimney.

6.3.2 Installation example

This type of installation (see Fig. 6.1) requires an insulated chimney pot, even if the entire conduit is installed inside the building. Besides, the structure must be inserted into a properly ventilated skylight shaft.

In the lower part of the chimney pot there is an inspection cover, properly isolated from wind and rain.

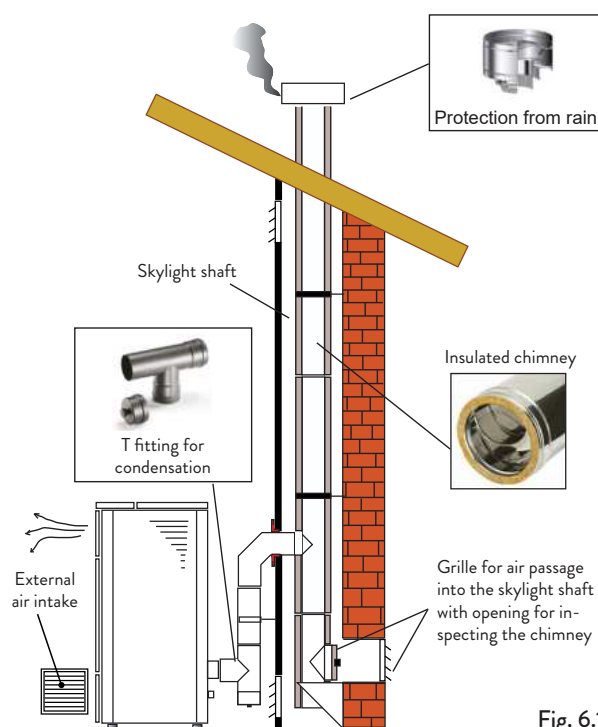


Fig. 6.1

It is prohibited to install a 90° bend for the initial segment, since the ashes would quickly obstruct smoke passage, causing draught problems in the appliance (see Fig. 6.2).

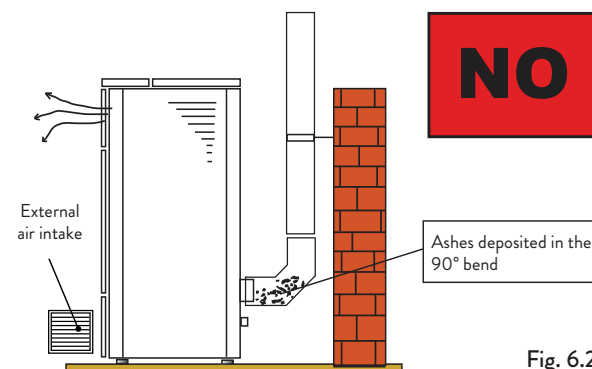


Fig. 6.2

It is possible to use an existing chimney or a shaft via ducting. For this type of installation (see Fig. 6.3) the standards on ducted smoke evacuation systems must be complied with. In the lower part of the chimney pot, inside the home, there is a "T" type fitting installed; externally

there is another one installed, so that the outside section can be inspected.

It is prohibited to install two 90° bend, since the ashes would quickly obstruct smoke passage, causing draught problems in the stove (see Fig. 6.2).

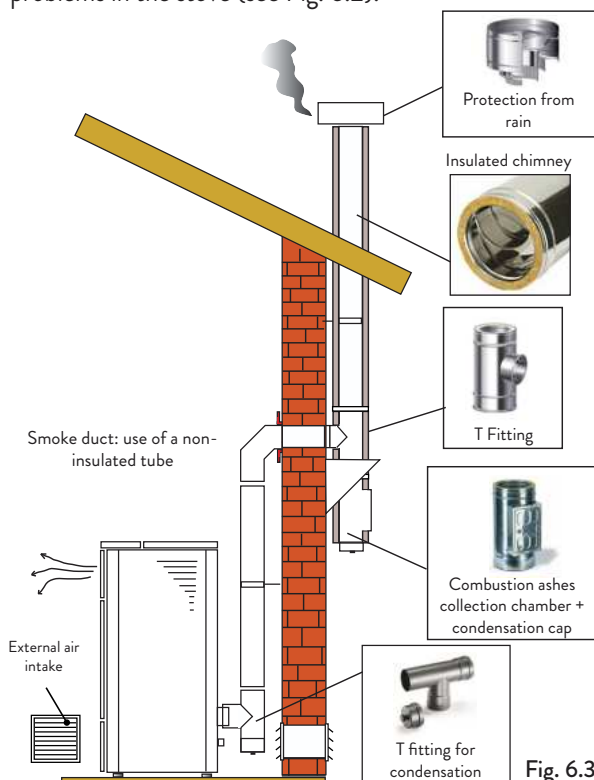


Fig. 6.3

This type of installation (see Fig. 6.4) requires an insulated chimney pot, even if the entire smoke conduit is installed outside the building.

In the lower part of the chimney there is a “T” type fitting installed with inspection cap.

It is prohibited to install a 90° bend for the initial segment, since the ashes would quickly obstruct smoke passage, causing draught problems in the stove (see Fig. 6.2).

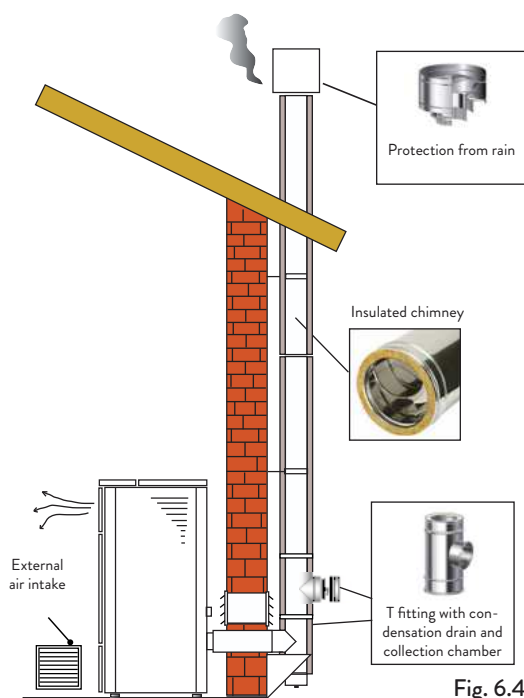


Fig. 6.4

This type of installation (see Fig. 6.5) requires an insulated chimney pot, since the entire smoke conduit is installed inside the building, and the part is located inside a pre-

existing chimney pot.

In the lower part of the stove there is a “T” type fitting installed with inspection cap just like for the chimney pot.

It is prohibited to install a 90° bend for the initial segment, since the ashes would quickly obstruct smoke passage, causing draught problems in the stove. (see Fig. 6.2)

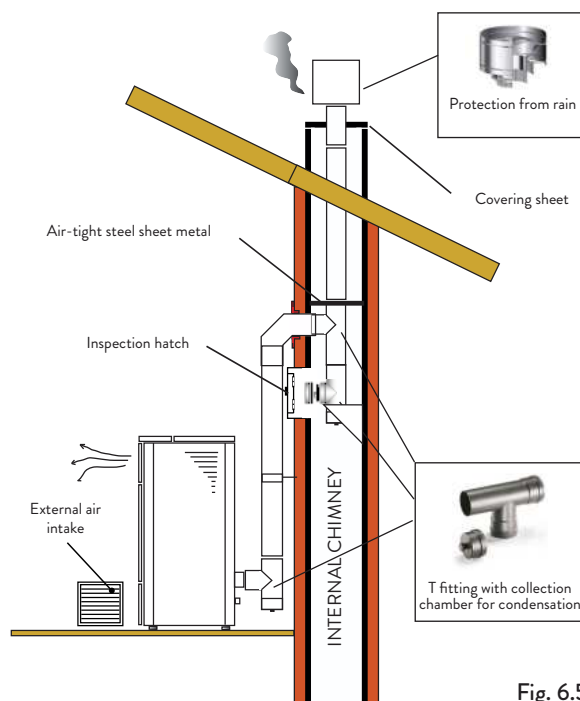


Fig. 6.5

This type of installation (see Fig. 6.6) requires a horizontal section to connect to a pre-existing chimney pot.

Respect the slope indicated in figure, in order to reduce the ashes depositing in the horizontal tube. In the lower part of the chimney pot, there is a “T” type fitting installed with inspection cap, in the same way as the chimney pot opening.

It is prohibited to install a 90° bend for the initial segment, since the ashes would quickly obstruct smoke passage, causing draught problems in the stove. (see Fig. 6.2)

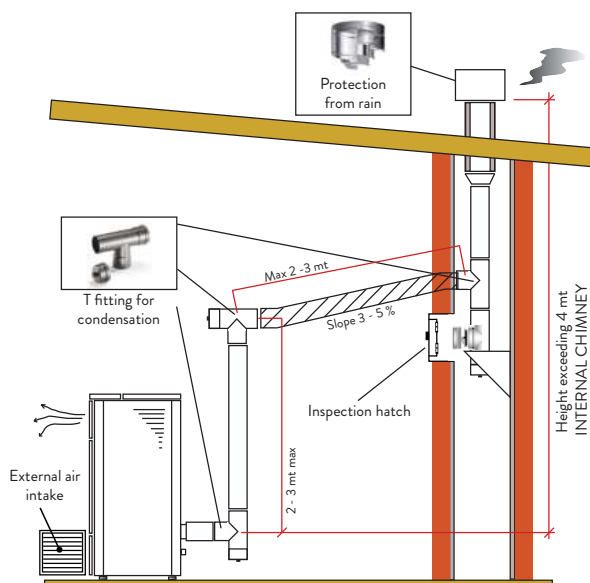


Fig. 6.6

7 CONNECTIONS

-  The connections must be set up by a technician that is qualified and/or authorised by the Manufacturer.
-  By the installer the type of cable, with relative section, to be installed in case of replacement is: H05RR-F sez.3G0,75

7.1 CONNECTION WITH EXTERNAL AIR INTAKE



Use the outside air intake only with non-coaxial installation.

To make the connection with an external air intake, proceed as follows:

STEP	ACTION
1	Connect a 50 mm diameter pipe to the combustion air inlet pipe at the back of the stove. Note: the pipe must be no more than 2 m in length.



The air vent must be installed in such a way that it can not be blocked.

7.2 CHIMNEY CONNECTION



The chimney must be sized so as to guarantee the draught declared by the Manufacturer.



The stove must be connected to a single flue. It is forbidden to connect the stove to a flue shared with other combustion appliances or with hood exhausts.



The flue must be inspectable for cleaning.



Comply with the standards and laws in force in the region where the product is installed.

7.3 HERMETIC CONNECTION

The stove is designed for airtight installation.

Connect the 80/130 concentric duct for air supply and smoke outlet.

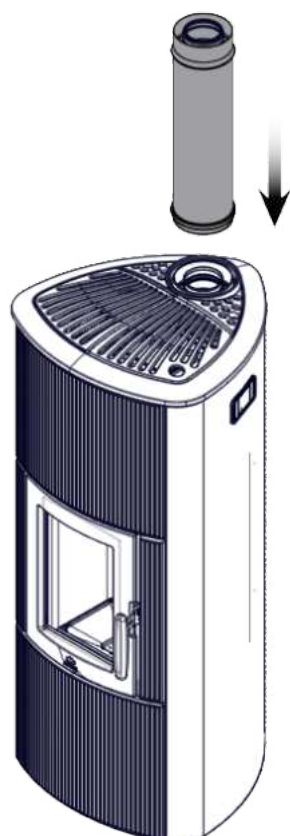


Fig. 7.1

7.4 FLUE CONNECTION (UPPER OUTLET)

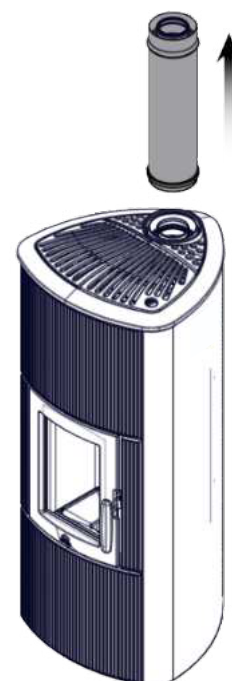


Fig. 7.2

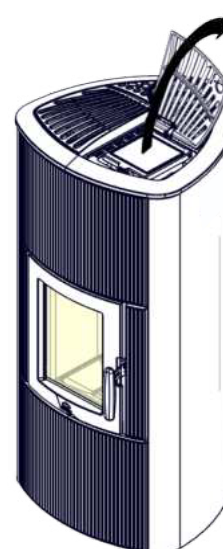


Fig. 7.3

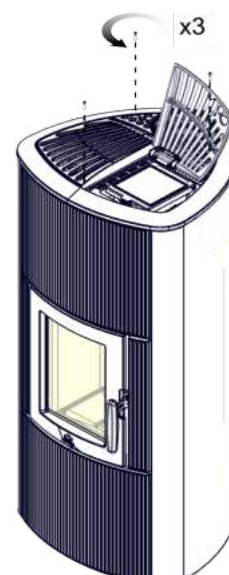


Fig. 7.4

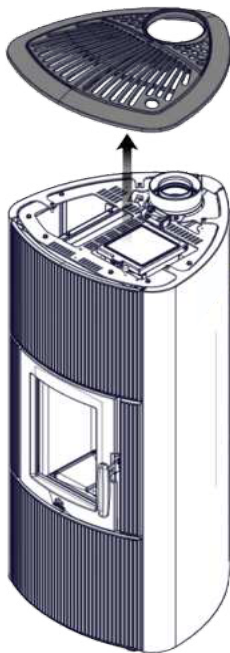


Fig. 7.5

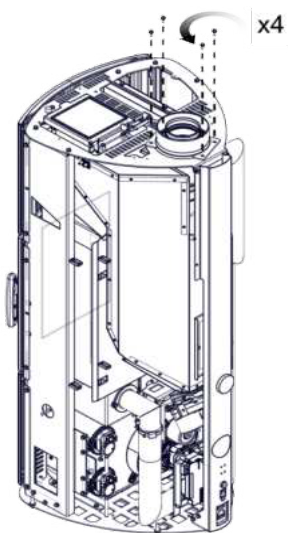


Fig. 7.8

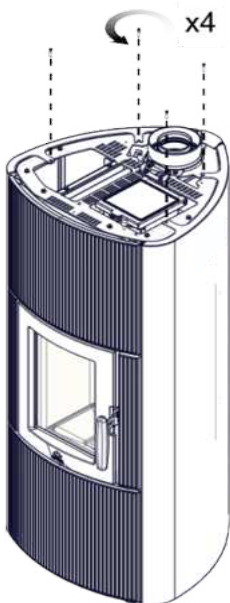


Fig. 7.6

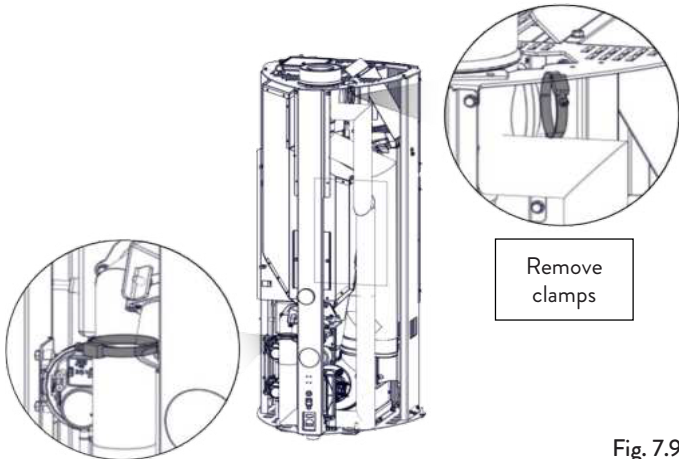


Fig. 7.9

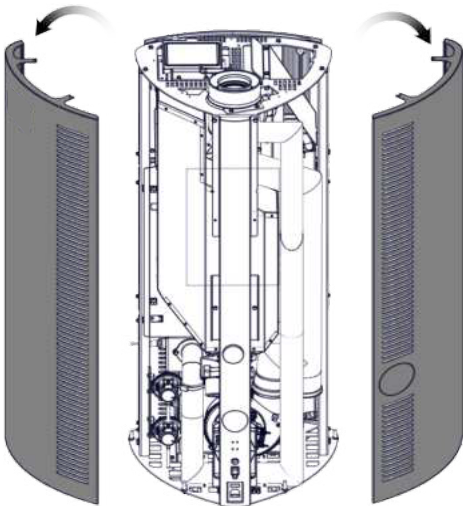


Fig. 7.7

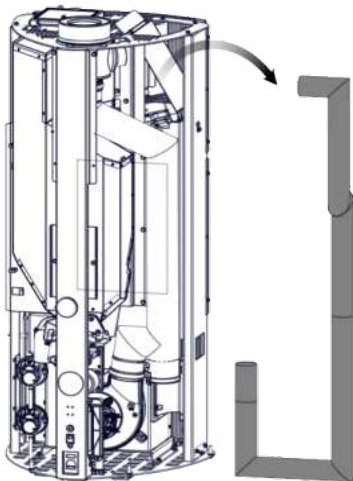


Fig. 7.10

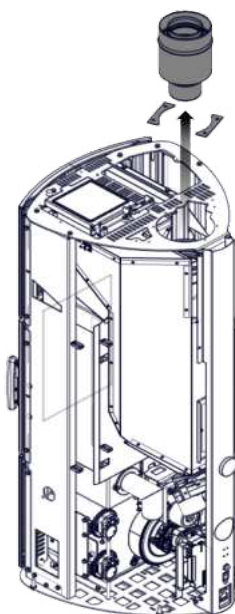


Fig. 7.11

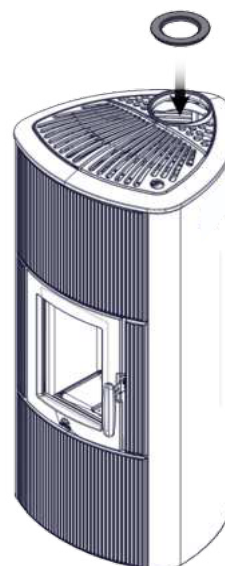


Fig. 7.14a

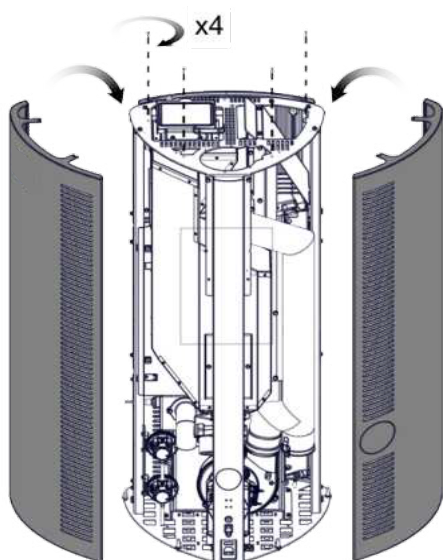


Fig. 7.12a

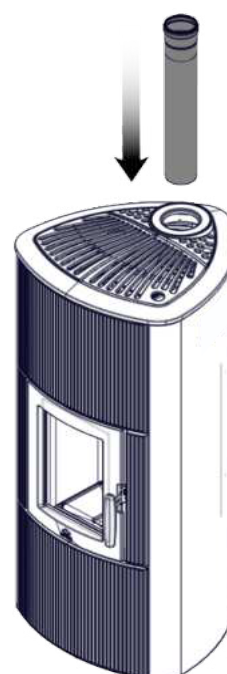


Fig. 7.15a

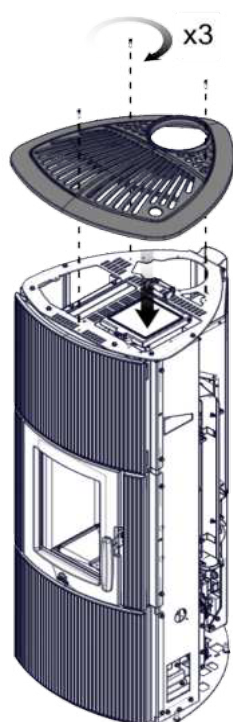


Fig. 7.13a

7.5 REAR SMOKE OUTLET KIT ASSEMBLY
(OPTIONAL KIT)

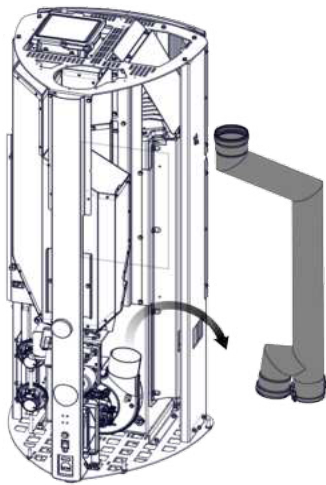


Fig. 7.12b

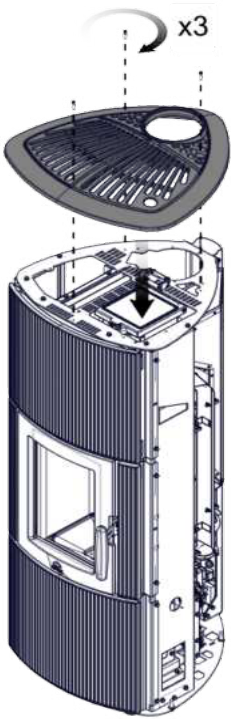


Fig. 7.15b

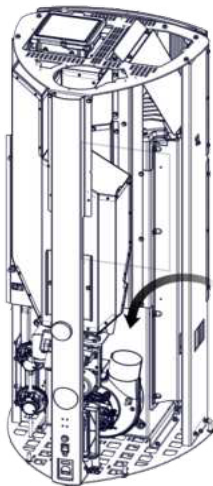


Fig. 7.13b

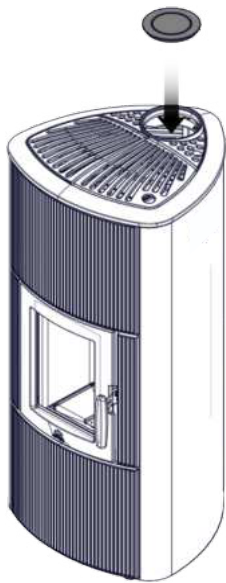


Fig. 7.16b

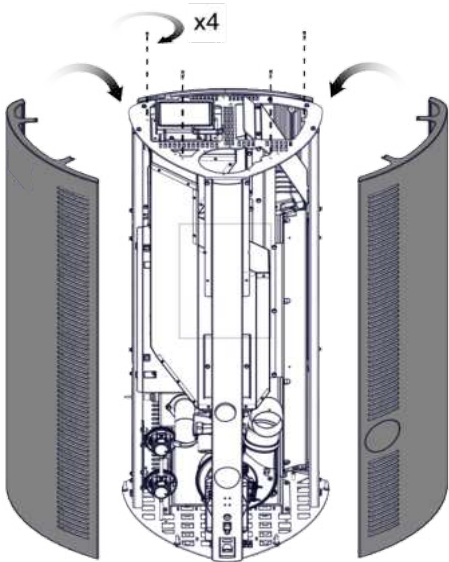
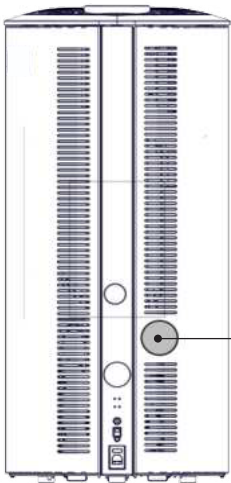


Fig. 7.14b



Break the
pre-cut

Fig. 7.17b

7.6 ELECTRICAL CONNECTION

The plug of the stove's power cable must only be connected after the installation and assembly has been completed of the appliance, and must remain accessible after installation. To make the electrical connection, proceed as described below:

- First connect the power cable to the plug on the back of the stove and then to a wall socket.
- Supply power to the stove by turning the switch to position (I).



When the stove is not in use, it is advisable to disconnect the power cable.



Take care that the power cord (and any other cables outside the equipment) do not come into contact with hot surfaces.



Ensure that the electrical system is grounded.



For direct connection to the mains, it is necessary to provide a device that ensures disconnection from the mains, with a contact opening distance that allows complete disconnection under the conditions of overvoltage category III, in accordance with installation rules.



If the power supply cable is damaged, it must be replaced by the manufacturer or its technical assistance service or in any case by a person with similar qualifications, so as to prevent any risk.



It is recommended that authorized personnel pay special attention to the electrical connections after any work on the product.

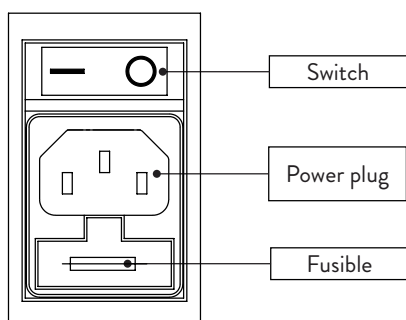


Fig. 7.18

7.7 TESTING AND COMMISSIONING

Stove start-up must be preceded by testing, which includes an operational check of the following elements:

- connection to the smoke evacuation system;
- electrical connections;
- operation of any connected external probes;
- checking that all materials used to build the smoke duct, chimney and chimney pot are regulation and suitable for use.

The testing is positive only when all operational phases have been completed without any anomaly being detected.

8 PRELIMINARY PROCEDURES

8.1 PELLET LOADING

The first operation to do before turning on the product is to fill the fuel hopper (pellet) preferably using a special pan. Do not empty the bag directly into the hopper to avoid loading in sawdust or other foreign elements that could prevent the appliance from working properly and to avoid spilling pellets outside of the hopper.



Be sure to close the hopper lid well after having loaded in the pellets.

8.2 CHECKS PRIOR TO SWITCHING ON



You have read and perfectly understood the contents of this instructions manual.

Before lighting the stove, you must ensure that:

- the pellet tank is full;
- the combustion chamber is clean;
- the fire door seal and ash drawer are working correctly;
- the electric plug is connected correctly;
- every element that could burn has been removed (instructions, various stickers);
- If the fire pot is removable, make sure it is positioned correctly in place.



If the flue pipe catches fire you must call the fire brigade immediately.

8.3 ELECTRICAL POWER SUPPLY

Connect the appliance to the power mains, turn on the power switch at the back of the appliance by placing it on (I).

8.4 DOWNLOAD AND INSTALL THE APPLICATION



An internet connection (2.4 GHz) is strongly recommended.

The stove needs an application to be downloaded from Play Store or App Store in order to work.

To download it, the name of the app is ApiYou User, otherwise scan one of the two QR codes based on what operating system you have.

ANDROID	IOS



Some screens may change due to the advancement of the application version.

Once the application has been downloaded and installed, proceed as follows.

Accept the suggested conditions while using the App.

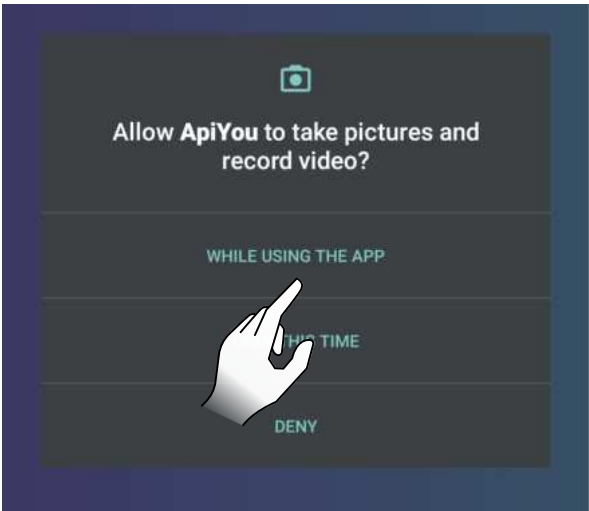


Fig. 8.1

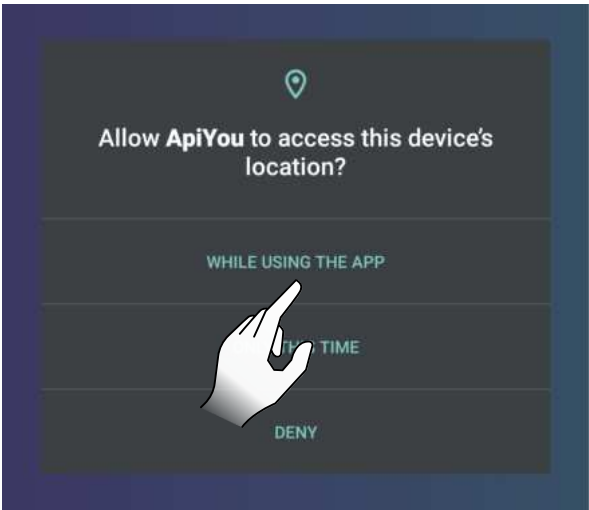


Fig. 8.2

8.5 CREATING AN ACCOUNT

To create a new account, if you do not already have one, select "I don't have an account".

Then:

- enter an Email address;
- confirm the Email address entered in the first field;
- choose two coinciding passwords of length greater than or equal to 8 characters, which contain at least one upper-case letter, one lower-case letter and one number, and which do not contain a part of the email address or strings that are too common (e.g. '123456' or 'password');
- click on the sign in button.

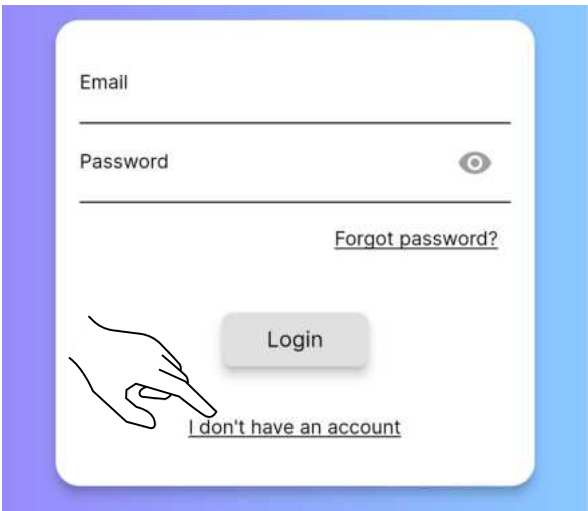


Fig. 8.3

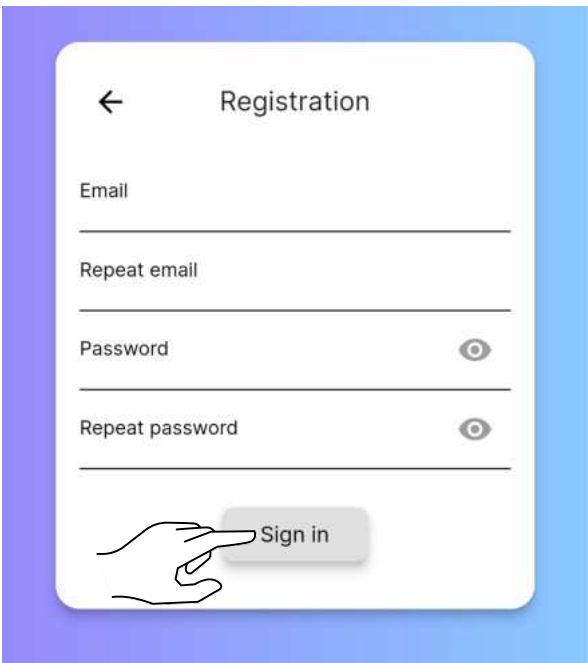


Fig. 8.4

If you already have an account, enter your credentials and start using the app.



It is advisable to use the same account to connect multiple users, in the same family, to the same stove.

You will receive an email to complete the registration. Open the email you received and select "Verify Mail" (Fig. 8.6).

A screen will open in which you will need to confirm your email again (Fig 8.7).

By selecting “Submit” (Fig. 8.8) you will receive an additional email; open it and select “Verify Mail” (Fig. 8.9), which will redirect to the verification confirmation page (Fig. 8.10).



Fig. 8.5

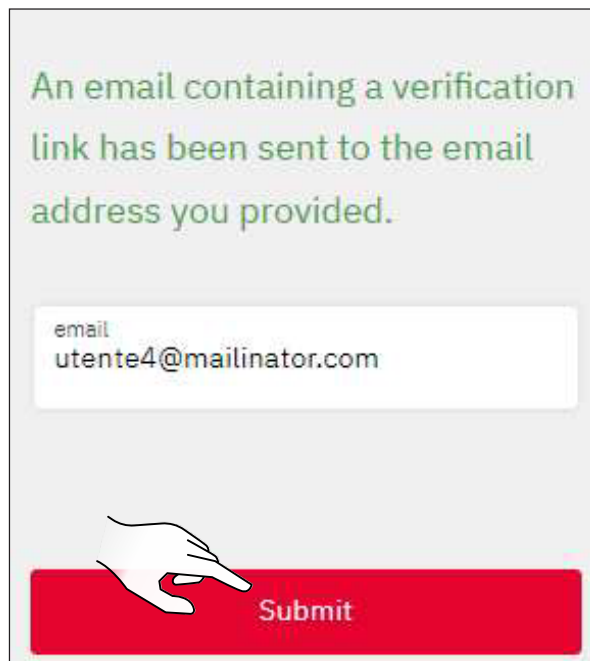


Fig. 8.8

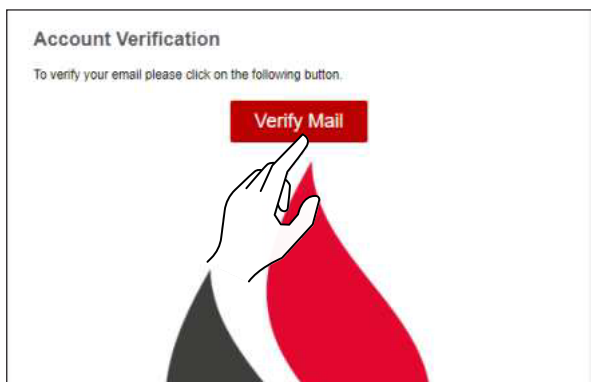


Fig. 8.6

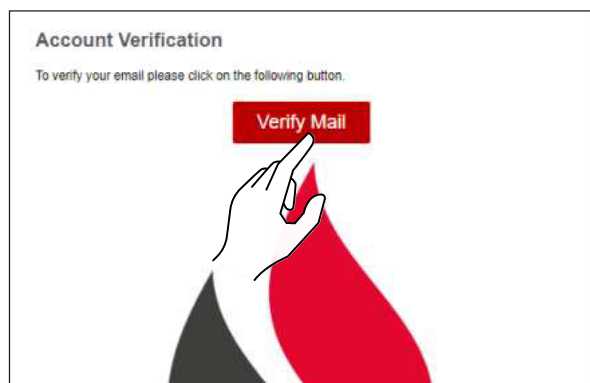


Fig. 8.9

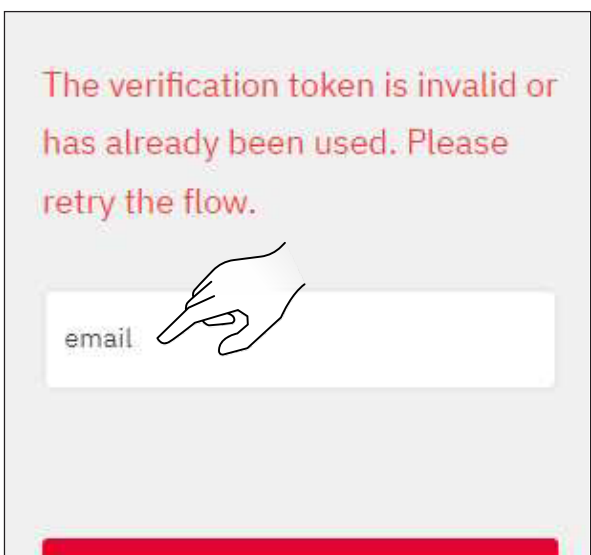


Fig. 8.7

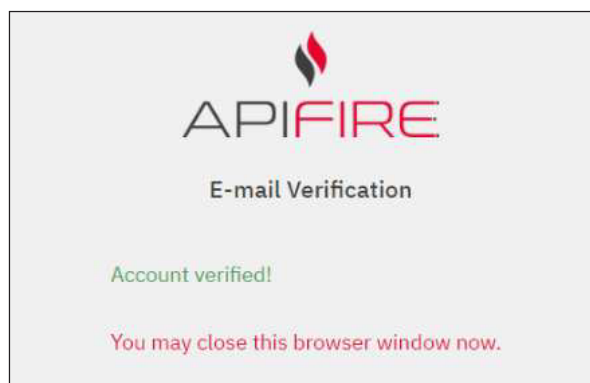


Fig. 8.10

8.6 PASSWORD RECOVERY

If you already have an account but do not remember your password, select “Forgot password?” and enter the email associated to the account that you wish to recover the password for.



Fig. 8.11



Fig. 8.12

You will get a new Email, to create a new password.
By selecting “Set Password” a configuration page will open to create a new password on the Web App.
Fill in the compulsory fields.

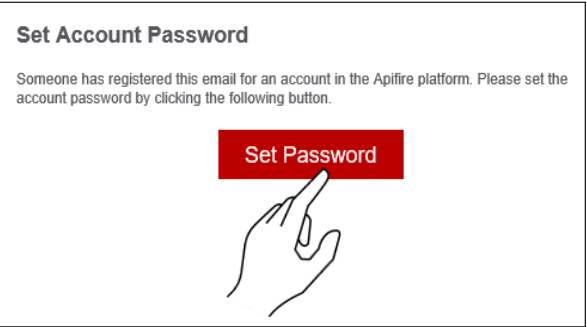


Fig. 8.13

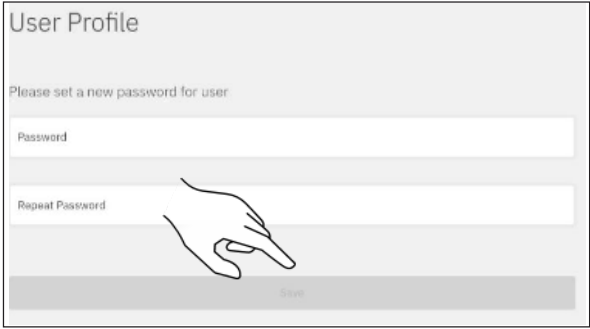


Fig. 8.14

- Be sure to correctly enter the Email for recovery.
- If you do not get the Email, check whether it has been sent to the “spam” / “junk” list.

8.7 CONDITIONS OF USE

The next step to create an account is to accept the conditions of use.
The two essential conditions to use the app are presented in underlined characters.
The other conditions are completely optional.



If there are issues with accepting the terms and condition, contact support@apifire.it with subject line “unable to confirm terms and conditions of use”.

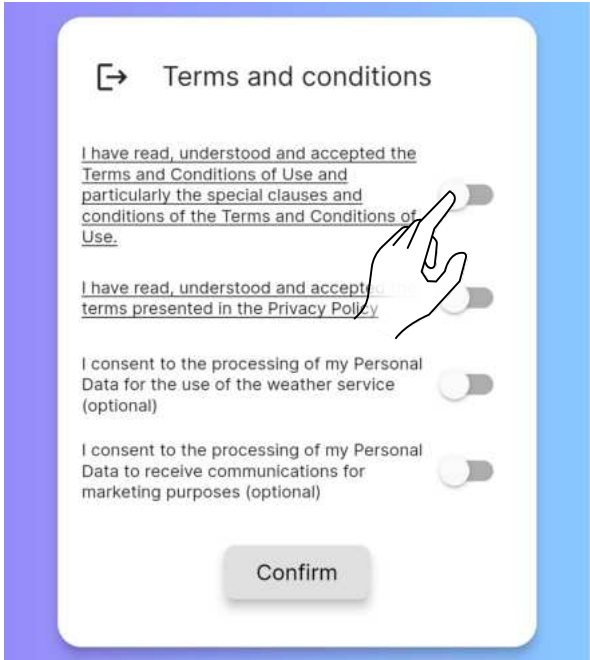


Fig. 8.15

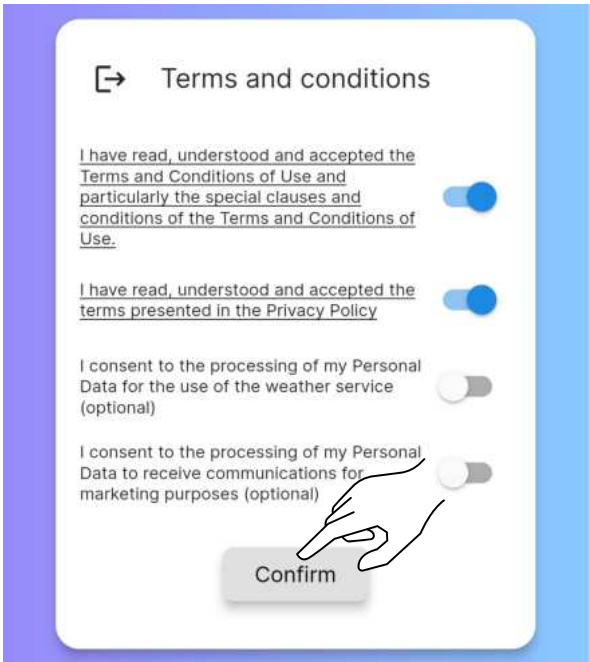


Fig. 8.16

8.8 CONNECTING A STOVE

Once you have accepted the terms and conditions of use, proceed with choosing the correct option based on whether

- you wish to associate the application to a NEW STOVE;
- you wish to associate the application to a STOVE ALREADY IN OPERATION.

8.8.1 Connecting a new stove

With this procedure you will define the “owner account”, the only one that can grant access to other users to use the stove in question.

Select “Do you have a new stove and want to put it into operation?”

Allow use of the camera while you are using the app.

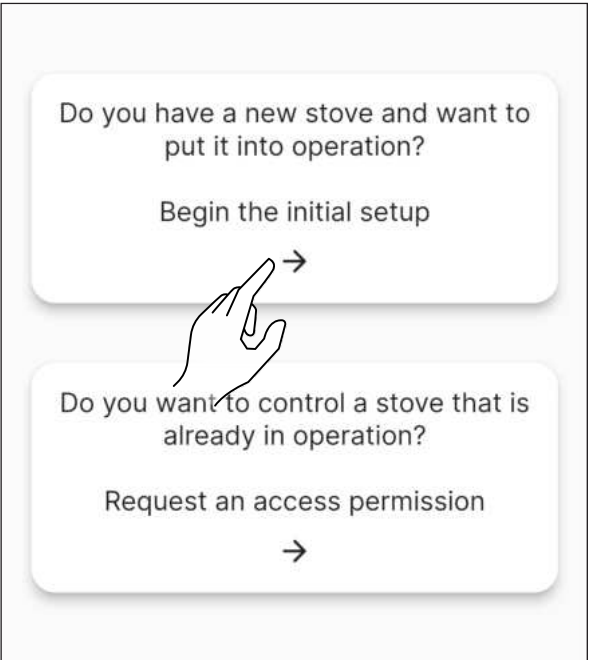


Fig. 8.17

Scan the QR code located either on the back of the body of the stove or on the check sheet, in the bubble-wrap bag contained inside the hopper. Alternatively, enter the 16-character code manually - in the example provided here, the stove code is 2044000107157716.



Fig. 8.18

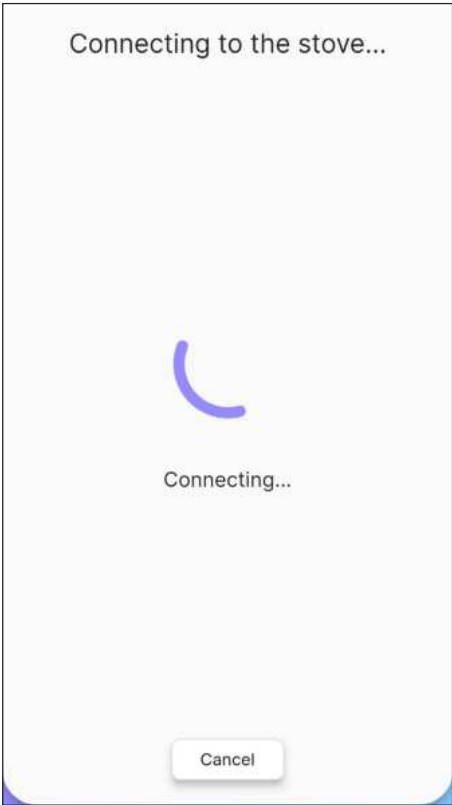


Fig. 8.19

Manually enter the stove label (Fig. 8.20) or choose a name from the suggestions (Fig. 8.21).

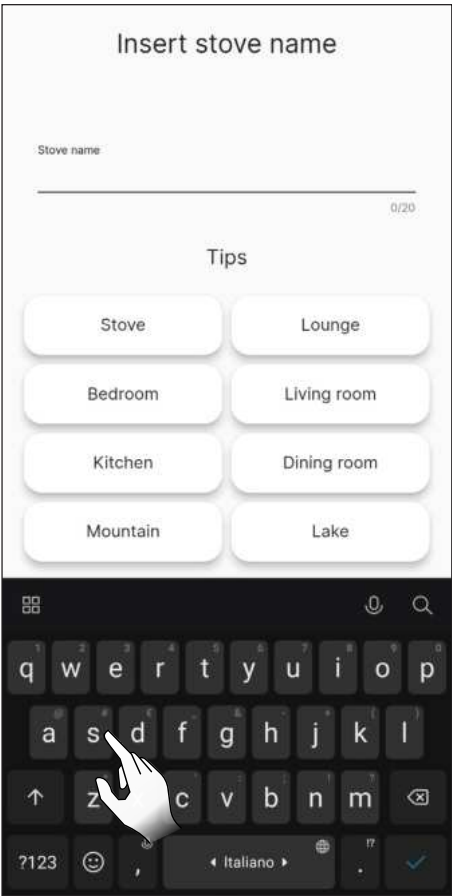


Fig. 8.20



Fig. 8.21

Select the Wi-Fi network and enter the password. Then choose the stove installation profile.



Fig. 8.22

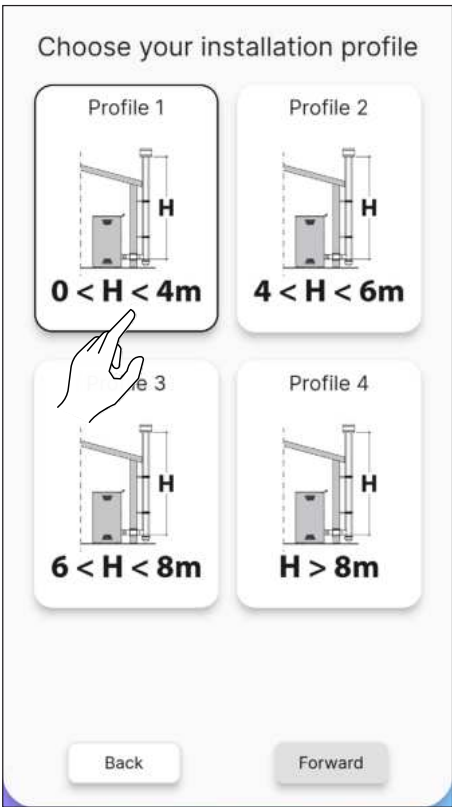


Fig. 8.23



Before preloading the auger, be sure you have filled the pellet hopper and check that the auger is not already full. During preloading do not open the stove door.

After filling the stove hopper, start auger preloading.

This operation can be skipped by clicking on “Forward”.

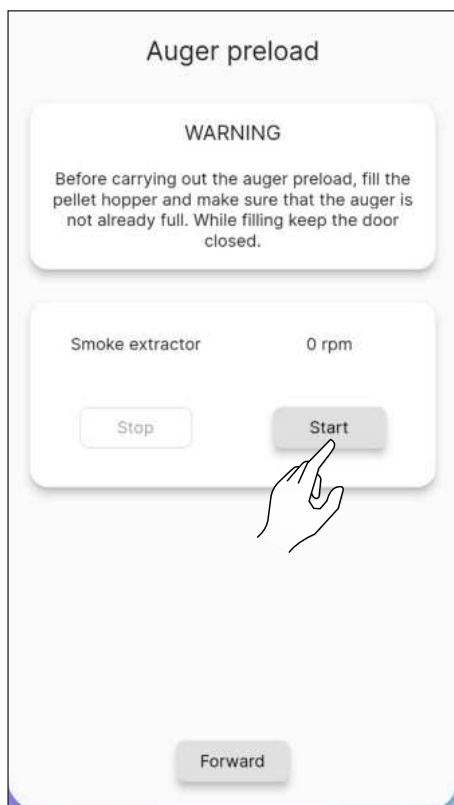


Fig. 8.24

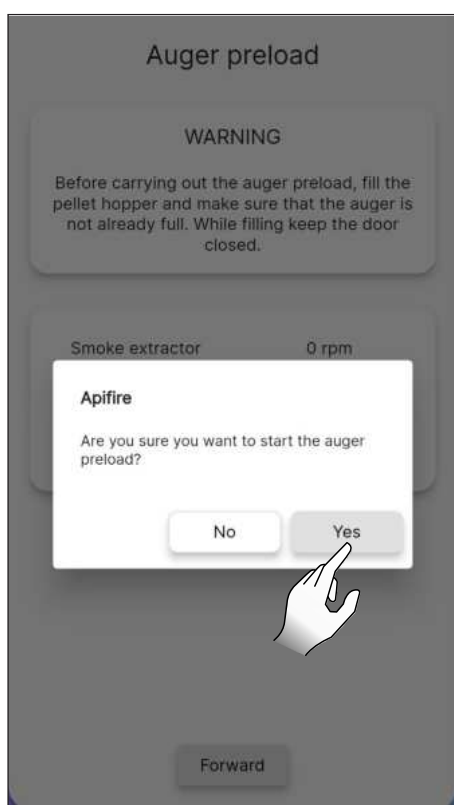


Fig. 8.25

8.8.2 Connection error with new stove

If this message appears “This stove is already setup. Do you want to request an access permission?” (Fig. 8.26), check:

- that the stove has not already been configured with a different account. If the account in use is the only one that has been configured thus far for the system, contact assistance through Email support@apifire.it with subject line “Stove already configured”;
- that you have scanned the QR code correctly. Check that ApiYou allows use of the camera, if it has not been allowed the scan will appear completely black; therefore, edit the settings as shown in Fig. 8.1 and 8.2, or manually enter the 16-digit code;
- that you have correctly entered the 16-digit stove code;
- that the stove is visible among the Bluetooth devices detected by the smart device in use.



The smart device and the stove are **NOT PAIRED** from the phone settings, but **ONLY** from the specific ApiYou procedure.

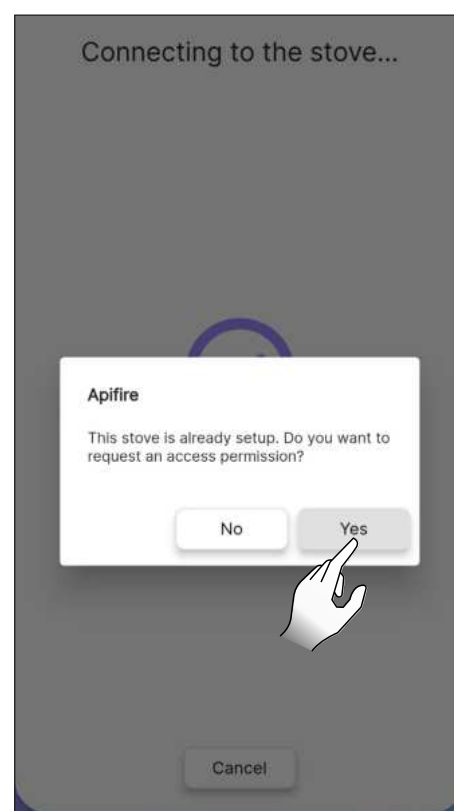


Fig. 8.26

If all of the previous steps have been carried out correctly, but it is still not possible to connect the app to the stove, try:

- closing the app and opening it again;
- turning the stove off and back on again.

8.8.3 Connection with an already configured stove

ONLY use this option if an “owner account” has already been defined (see previous paragraph “Connecting a new stove”).

One can ask the “owner” for access for editing or read-only on a previously configured stove.

Proceed as follows:

- access with the new account being connected
- select “Do you want to control a stove that is already in operation?” (Fig. 8.27)
- on the “Access manager” screen, click on “Request new access” (Fig. 8.28)
- a dialog box will open (Fig. 8.29)
- in “Serial code” enter the stove code manually (all 16 characters, no spaces)
- in “Message” it is not compulsory to enter anything
- in “Permission” (Fig. 8.30) select:
 - 1) EDIT to change the stove parameters (for example, change the Room Temperature Set)
 - 2) READ ONLY to VIEW the Stove status (and accordingly not edit the parameters)
- select “Due date” to decide for how much time you wish to control the stove (Fig. 8.31)
- Confirm with “Send request” (Fig. 8.32)
- The request (if entered correctly) will appear as “pending confirmation”

After filling in the request, it will be displayed from the stove’s “owner” account:

- in the “owner” account, on the “Remote control” page, the “You have 1 request for access to the stove” notification will appear at the bottom;
- accept the request, if you wish to edit authorisations or enter a different access due date;
- once it has been accepted, the stove can be used from both accounts



Each access request can only be approved by the “owner” account associated to the stove.

- when the access request is accepted by the “owner” account, a notification will be sent to the new account pending confirmation (Fig. 8.35).

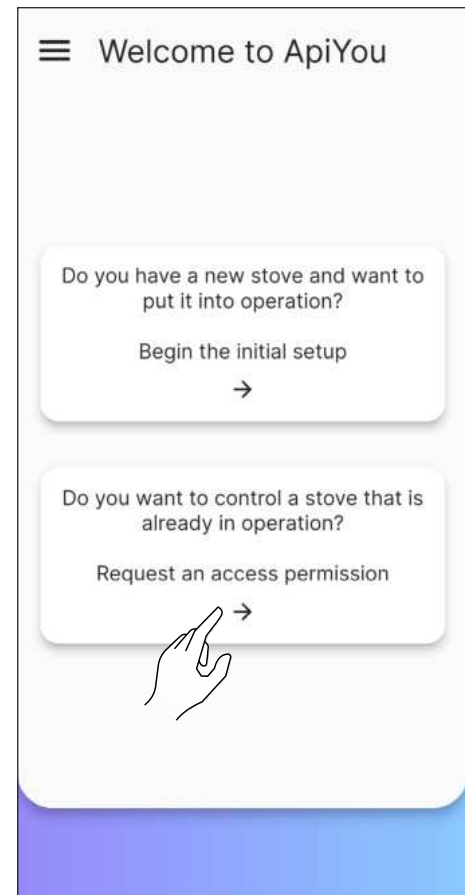


Fig. 8.27

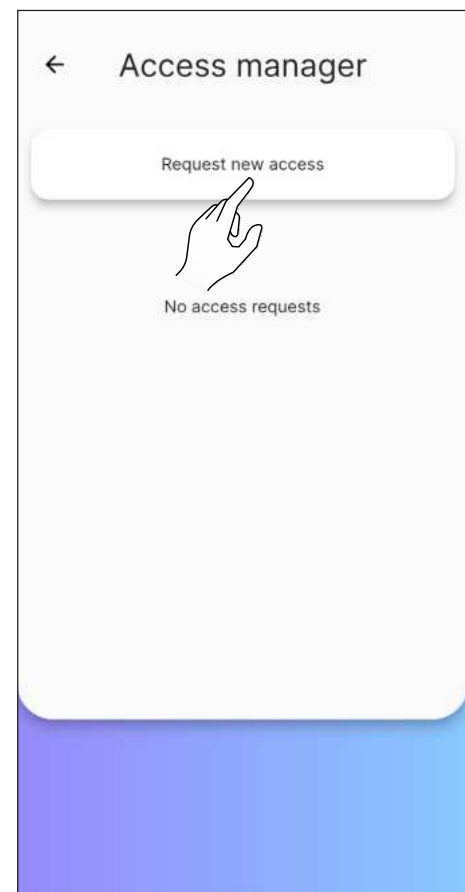


Fig. 8.28

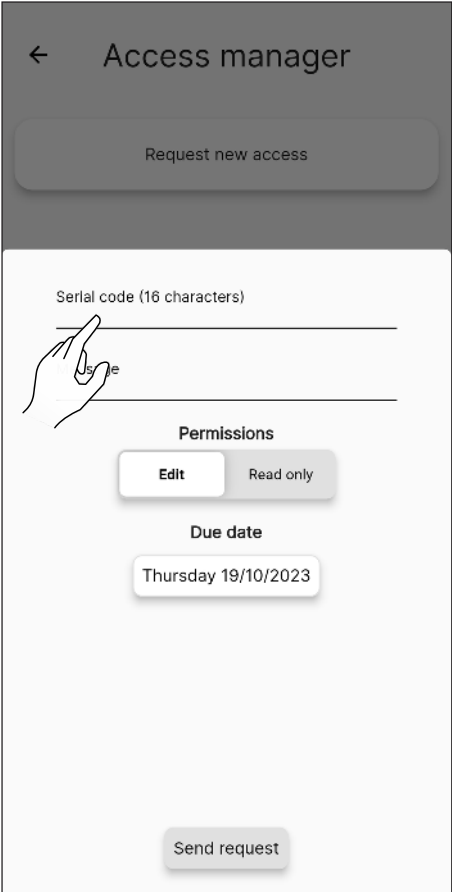


Fig. 8.29



Fig. 8.31



Fig. 8.30

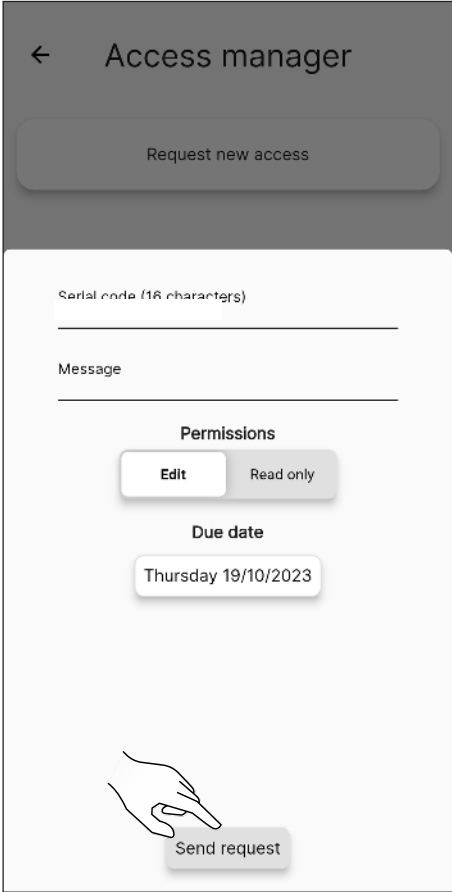


Fig. 8.32

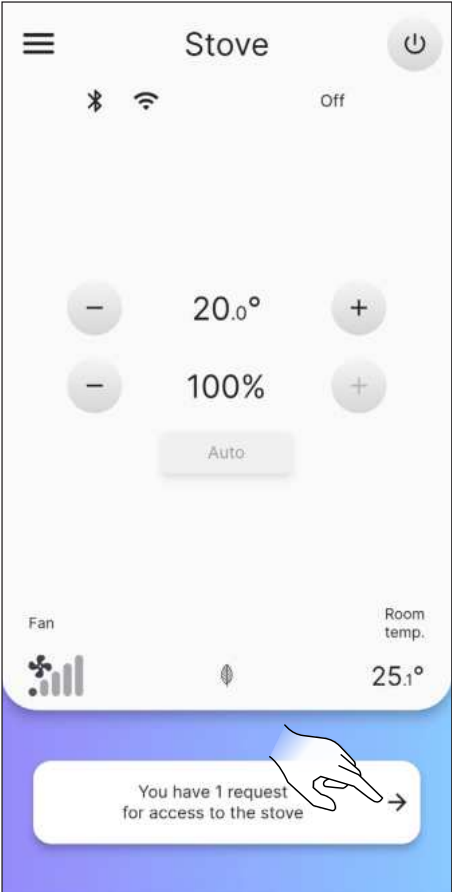


Fig. 8.33

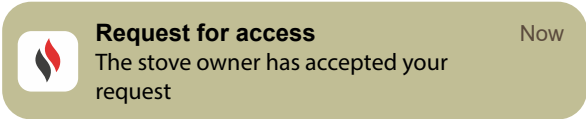


Fig. 8.35

8.8.4 Connection error with an already configured stove

- If the “An error has occurred” message appears, check:
- that the stove’s 16-digit code has been entered correctly;
 - that the code of the selected stove effectively has an “owner”.

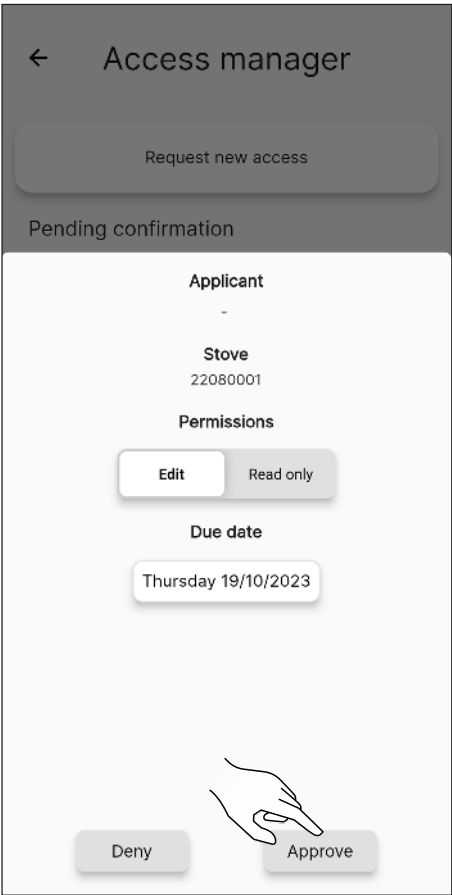


Fig. 8.34

9 REMOTE CONTROL OR HOME PAGE

9.1 DESCRIPTION

The remote control is composed of:

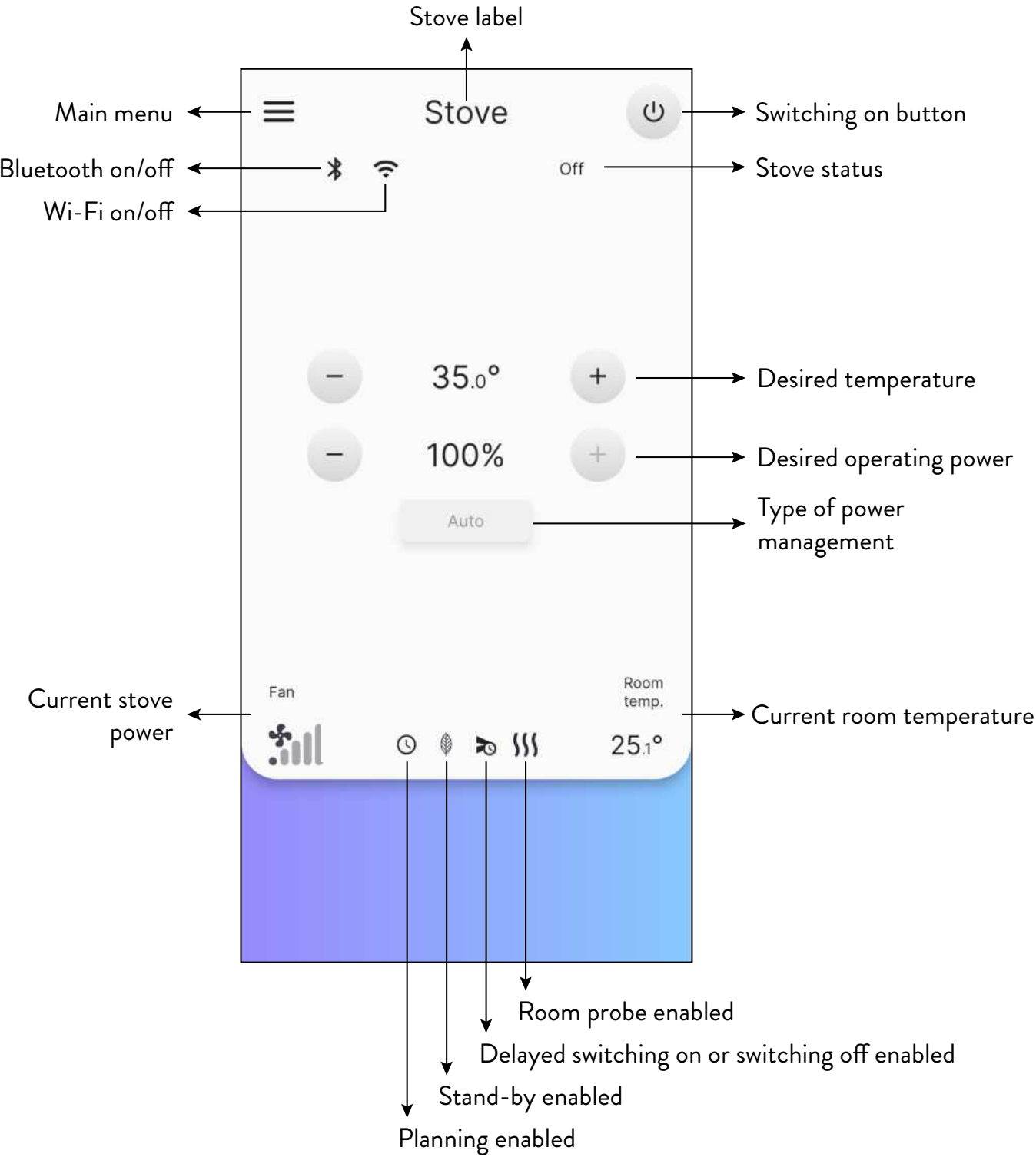


Fig. 9.1

9.2 NAVIGATION TREE

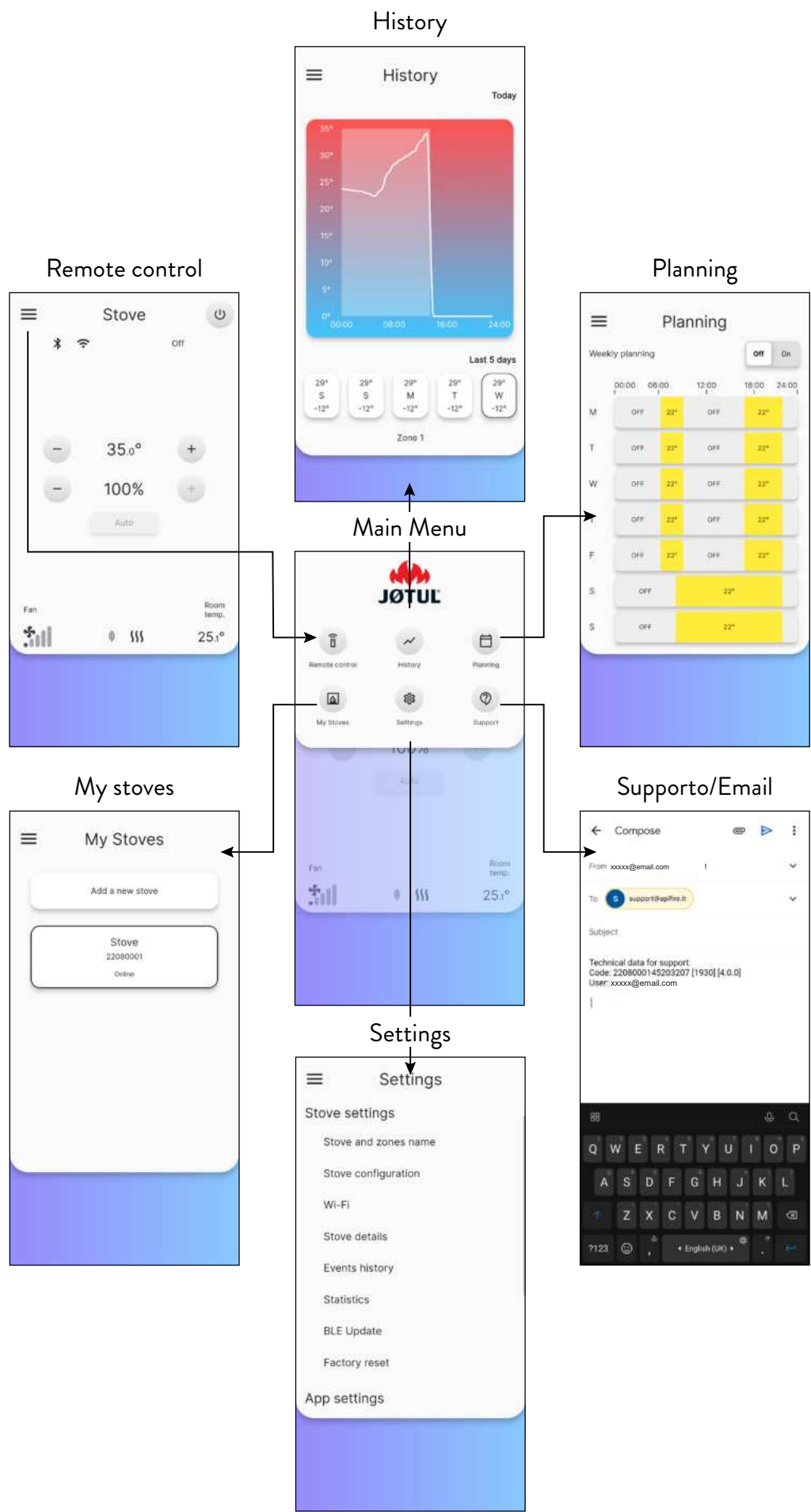


Fig. 9.2

10 “SETTINGS” MENU

10.1 SETTINGS

From the remote control (or home page) press the icon  to access the main menu.

Then press the  to access the “Settings” menu.

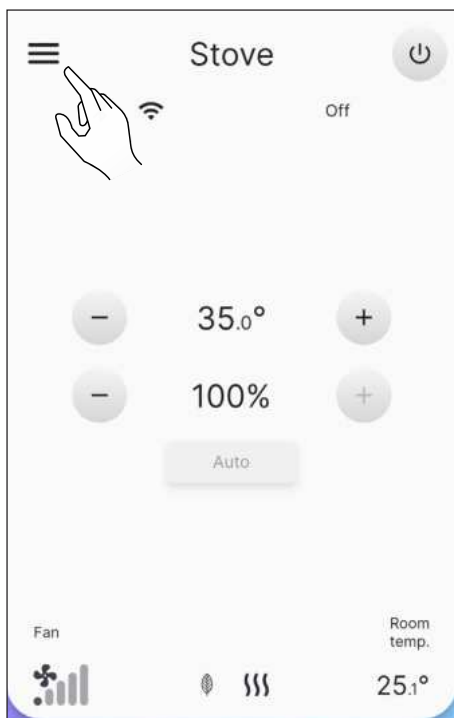


Fig. 10.1

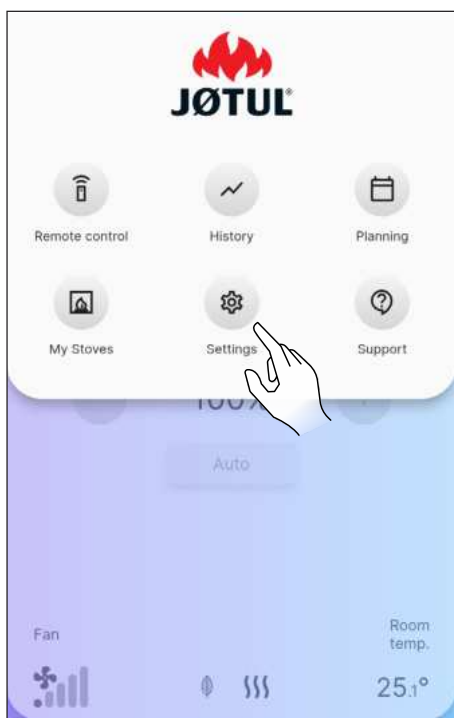


Fig. 10.2

Scroll the page to see the full list of possible settings.

Press the required item to open its editing or viewing screen.

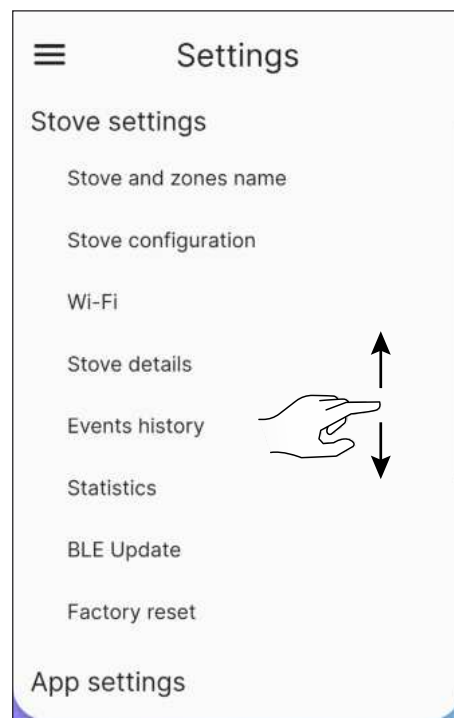


Fig. 10.3

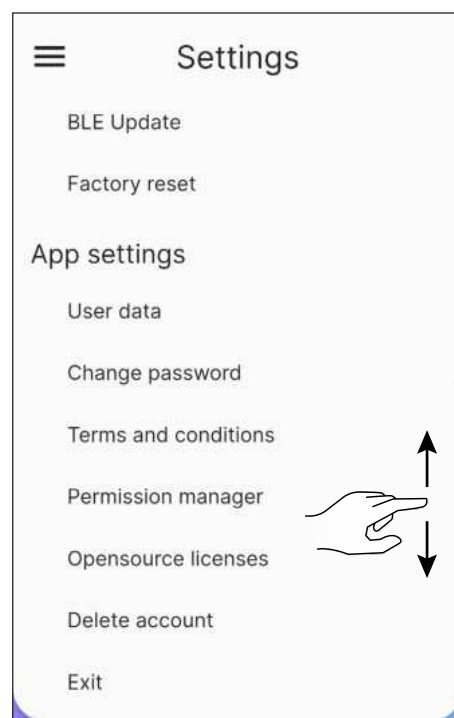


Fig. 10.4

10.1.1 List of Settings

SETTINGS	SUB-MENU	DESCRIPTION
Stove settings	Stove and zones name	Allows you to choose the name to be given to the stove and heating zones
	Stove configuration	To edit some parameters
	Wi-Fi	To choose the Wi-Fi network to connect the appliance to
	Stove details	Information about the appliance
	Events history	Log of past events
	Statistics	Log of operating mode and times
	BLE Update	Procedure for updating device firmware via Bluetooth
	Factory reset	Allow recovery of factory data
App settings	User data	Information about the user
	Change password	To change the password
	Terms and conditions	To edit terms and conditions not accepted previously
	Permission manager	To accept the access of an external user or to request access to other appliances
	Opensource licenses	Description of the licenses used by the app
	Delete account	To delete your account from the appliance
	Exit	To disconnect your account from the appliance

10.2 STOVE AND ZONES NAME

It is possible to enter or change the stove label, up to a maximum of 20 characters.

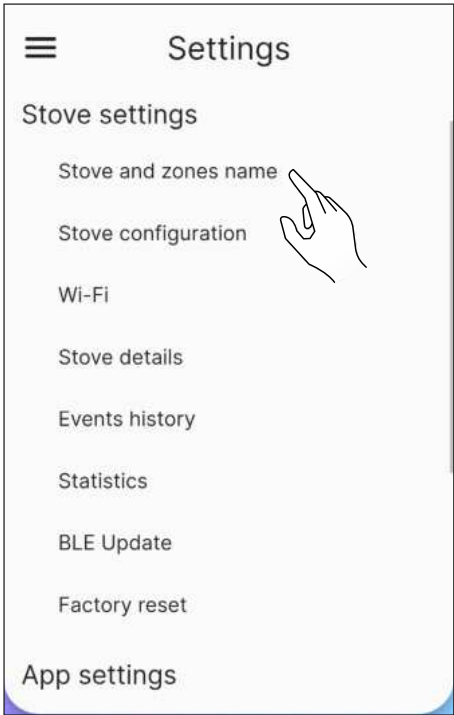


Fig. 10.5

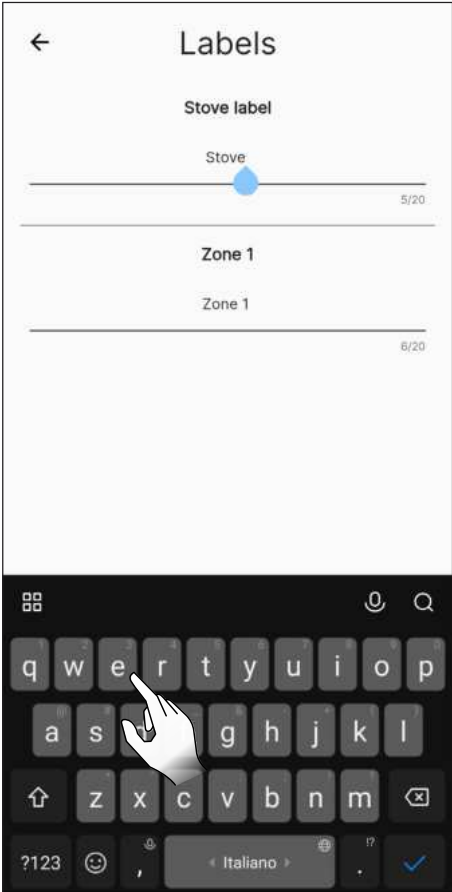


Fig. 10.6

10.3 STOVE CONFIGURATION

From the list of settings, select “Stove configuration” item.

From this screen it is possible to edit all of the stove parameters.

10.3.1 Parameter List

PARAMETER	DESCRIPTION	SETTABLE VALUES	DEFAULT VALUES
Stove location	The geographical location of the stove can be set manually	Get position	-
Manual preload	Manual loading of the auger	Start; Stop	Start
Fan speed zone 1	This parameter is not available for this model	-	-
Pellet mode	It is possible to set 10 different combustion configurations	-5...5	0
Stand-by	To enable “stand-by” mode	On; Off	On
Silence buzzer	Silence the buzzer temporarily	-	-
Enable/disable buzzer	Enable/disable the buzzer	Enable; Disable	Disable
Reset planning	To disable planning of switching on and off	-	-
Delayed ignition	Delays switching on	15 min...8h; Start	Start
Delayed shutdown	Delays switching off	15 min...8h; Start	Start
Offset zone 1	Room 1 temperature correction	-10.0°C...10.0°C	0.0°C
Thermostat zone 1	Enable/disable the external thermostat	On; Off	Off

10.3.2 “Stove location” function

The geographical location of the stove can be set manually.

10.3.3 “Manual preload” function



To preload the stove manually, it must be connected via Bluetooth.

To manually start the auger (stove off) proceed as follows:

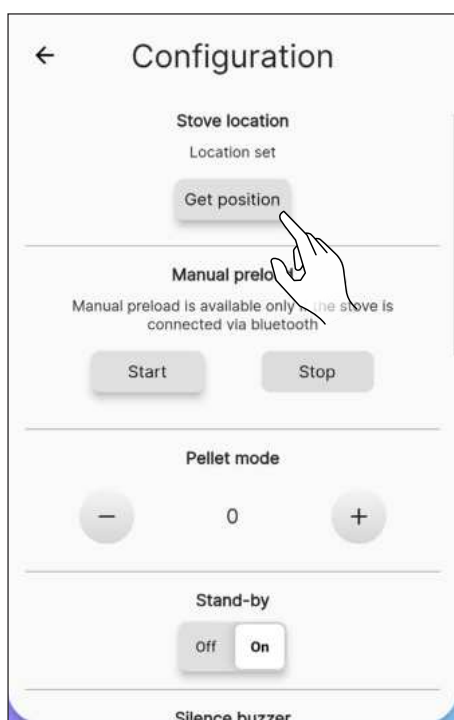


Fig. 10.7

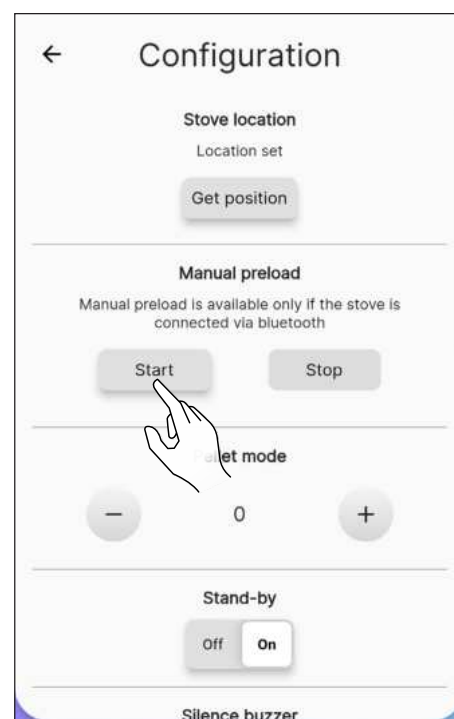


Fig. 10.8

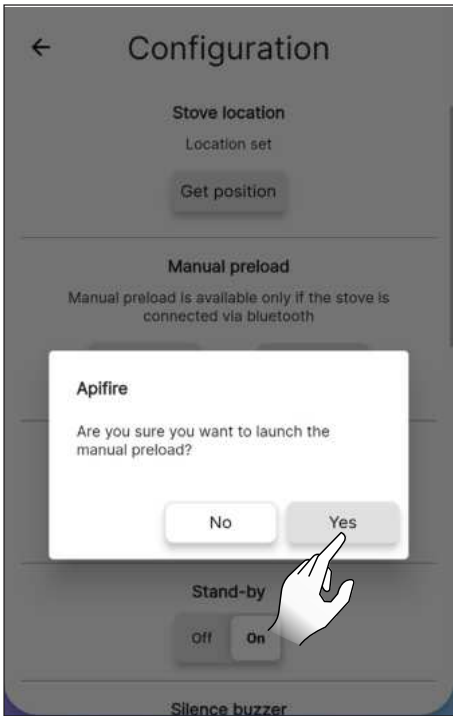


Fig. 10.9

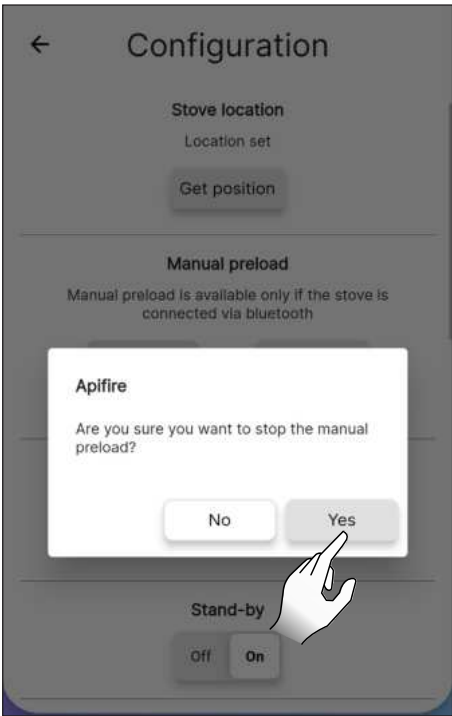


Fig. 10.11

On the other hand, to pause it:

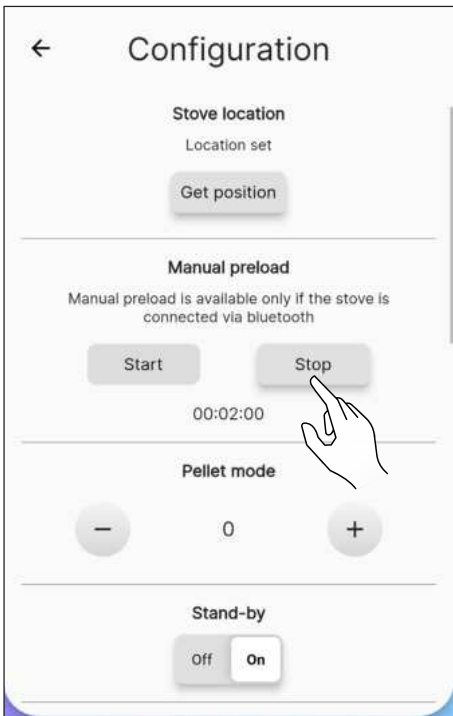


Fig. 10.10

10.3.4 “Pellet mode” function

Optimal combustion depends on various factors (installation type, operating and maintenance conditions, pellet type, etc...)
As a general rule, at the end of combustion, if a lot of residue remains in the fire pot, it is advisable to edit the combustion configurations (by increasing the value) until you achieve the most satisfying solution.
The settable values range from -5 (high quality pellet) to 5 (low quality pellet).
To set the type of pellet being used, press icons + or -.

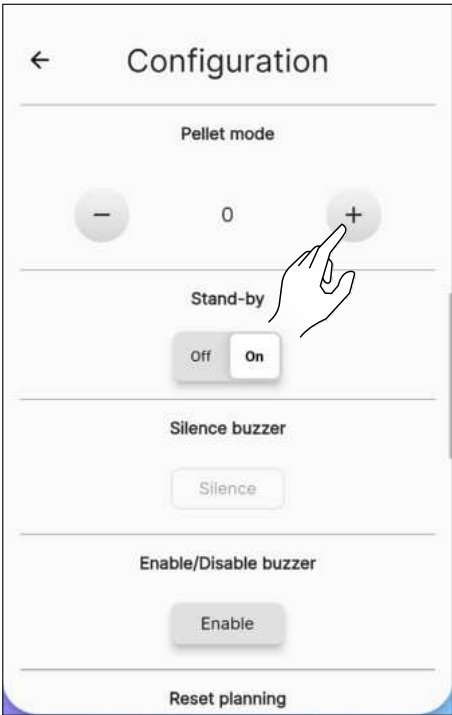


Fig. 10.12

10.3.5 “Stand-by” function

By enabling this function the appliance reaches the desired room temperature and then switches off.

If this function is not enabled, the appliance modulates its operation by not switching off.

To enable this function press “On”.

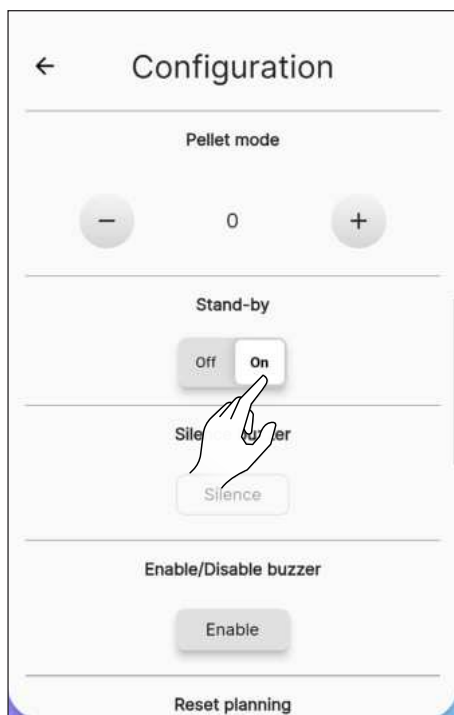


Fig. 10.13

10.3.7 “Enable/disable buzzer” function

To permanently enable/disable the buzzer, press the “Enable” or “Disable” button.

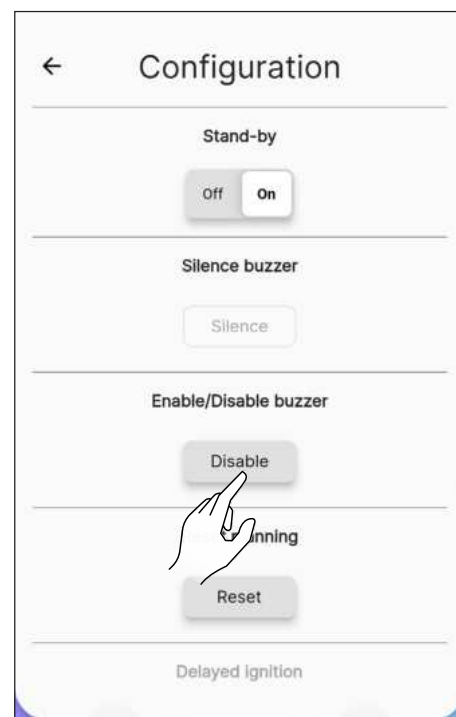


Fig. 10.15

10.3.6 “Silence buzzer” function



This function can only be used when an alarm is present, otherwise it will not be usable.

To silence the buzzer temporarily, press “Silence”.

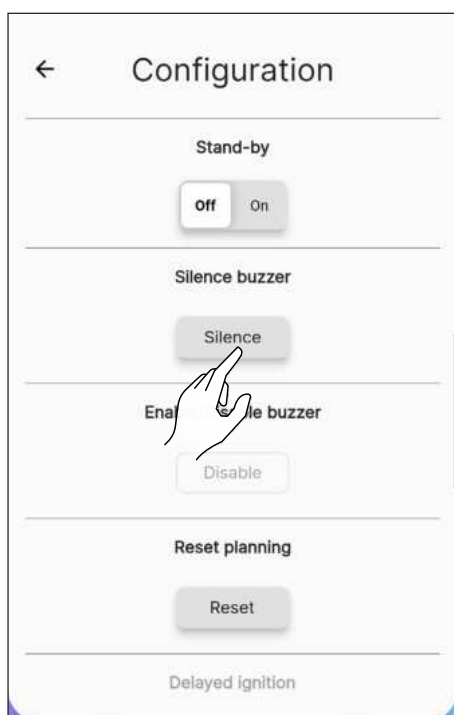


Fig. 10.14

10.3.8 “Reset planning” function

To reset planning press “Reset”.

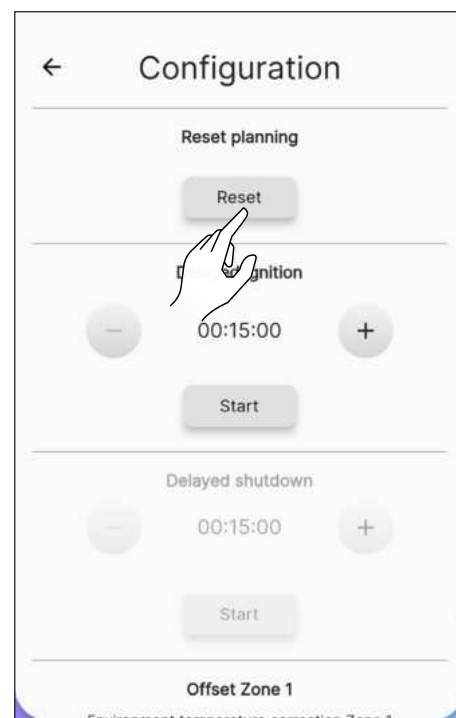


Fig. 10.16

10.3.9 “Delayed ignition” function

This function allows you to delay switching on the appliance only if this is switched off and if the schedule has not been enabled.

It will be possible to delay switching on the appliance by a minimum of 15 minutes to a maximum of 8 hours by using the keys **+** and **-**. Then press “Start”.

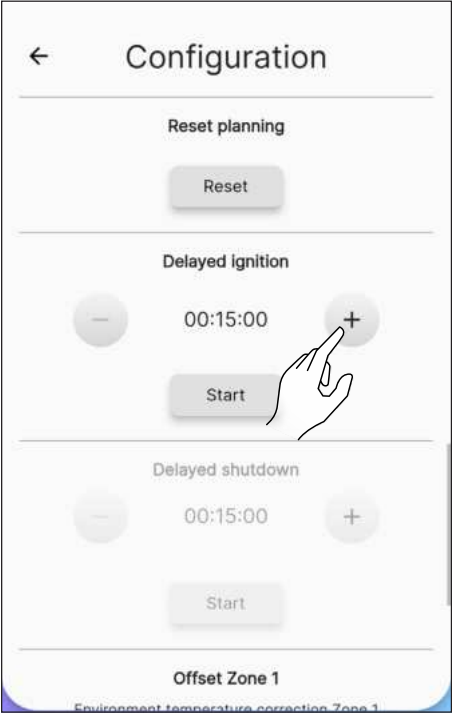


Fig. 10.17

10.3.10 “Delayed shutdown” function

This function allows you to delay switching off the appliance only if this is switched on and if the schedule has not been enabled.

It will be possible to delay switching off the appliance by a minimum of 15 minutes to a maximum of 8 hours by using the **+** and **-**. Then press “Start”.

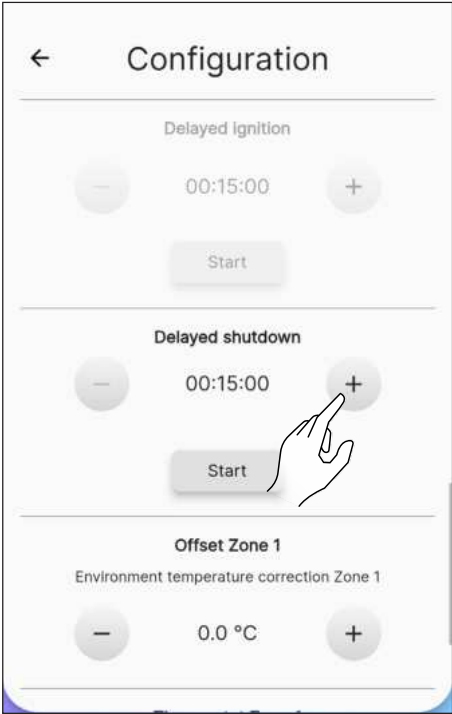


Fig. 10.19

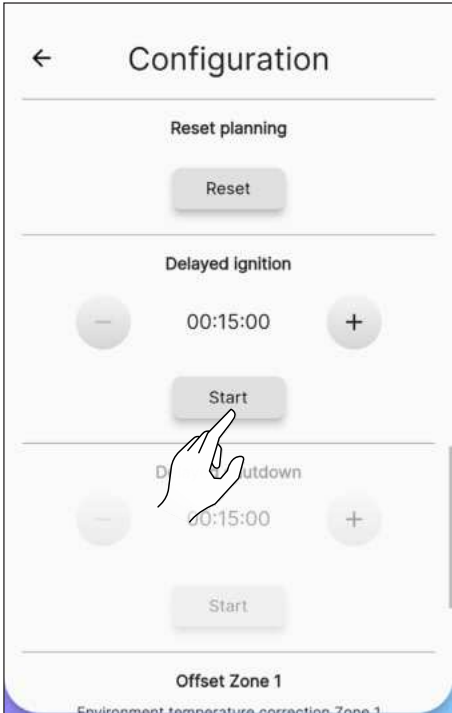


Fig. 10.18



Fig. 10.20

10.3.11 “Offset zone 1” function

This function is used to correctly read room temperature of zone 1.

The correction range is -10°C to 10°C.

To set the correction factor use keys **+** and **-**.

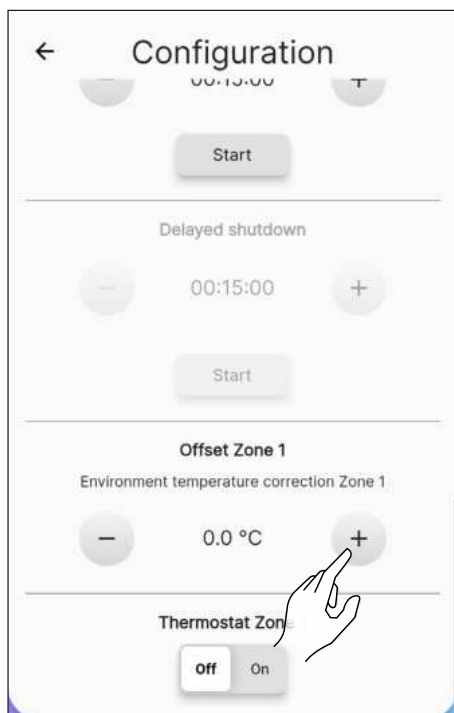


Fig. 10.21

10.3.12 “Thermostat zone 1” function

When the appliance is controlled by an external thermostat (or chronothermostat), the installer must turn it on using the “On” button

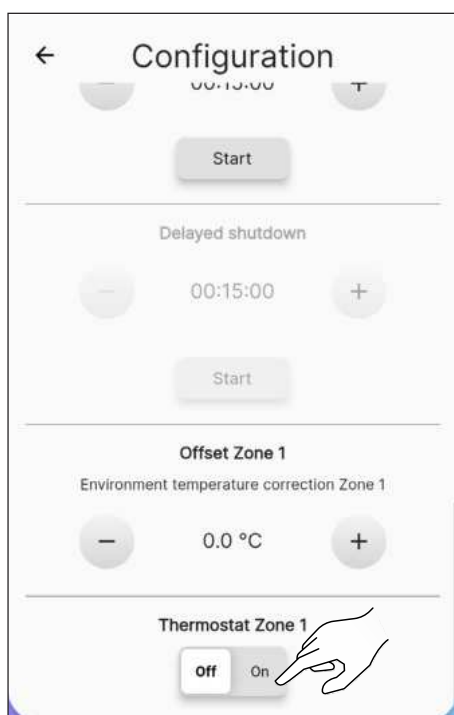


Fig. 10.22

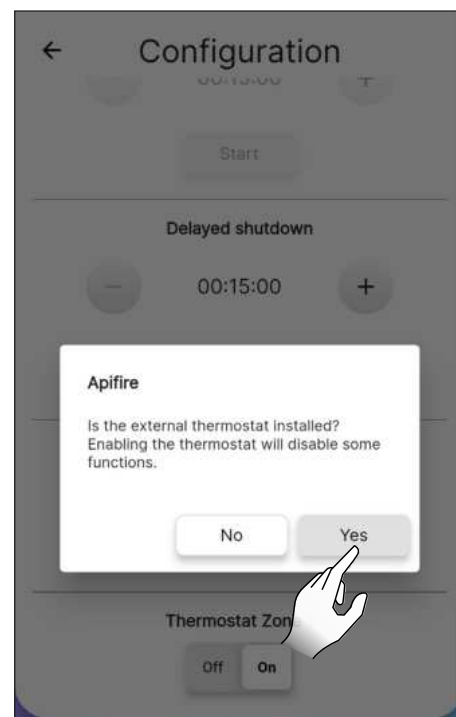
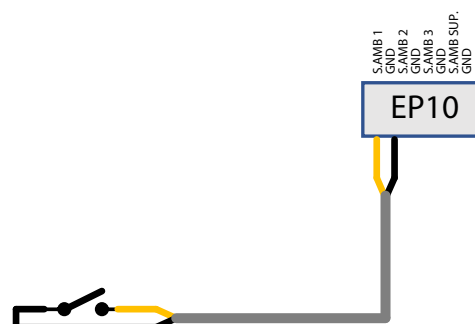


Fig. 10.23

and connect it to the EP 10 connector on the electronic board as shown in the figure.



Manually proceed with replacing the room probe with the external thermostat, by changing the wiring (optional kit).

Stand-by On: the appliance switches off when the external thermostat is satisfied (open circuit); the appliance turns back on automatically when the temperature drops below the value set on the external thermostat (closed circuit).

Stand-by Off: the appliance will go to the minimum or maximum power depending on the status of the thermostat.



The first time it is switched on, or if it was switched off directly from the appliance, it is necessary to proceed with switching on the appliance directly from the control panel.



Connect an open/closed external thermostat, therefore potential-free. This installation must be carried out by a specialist technician.

The “Remote control” screen displays the status of the thermostat instead of the room temperature.

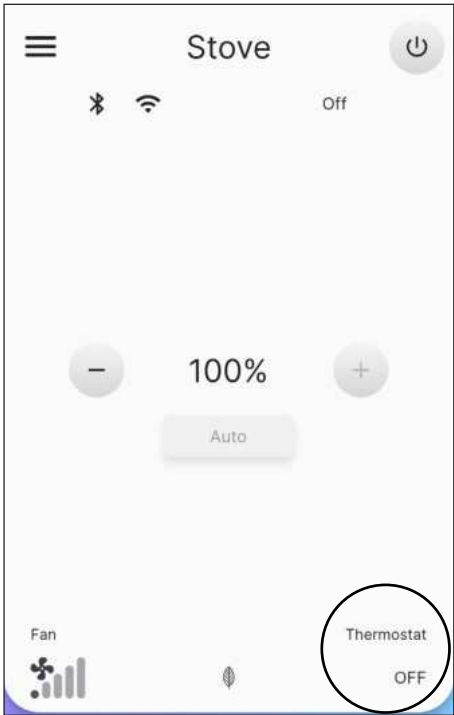


Fig. 10.24

10.4 WI-FI

From the list of settings, select “Wi-Fi” to select which network to connect the appliance to.

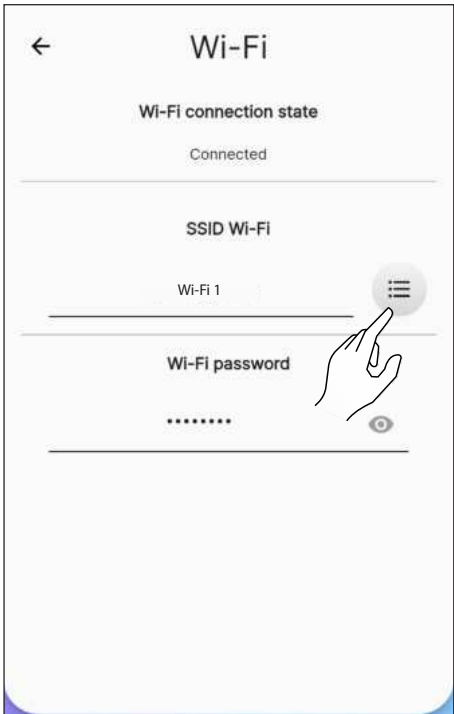


Fig. 10.25



Fig. 10.26

10.5 STOVE DETAILS

It is possible to view some of the information relative to the appliance, by scrolling the screen.

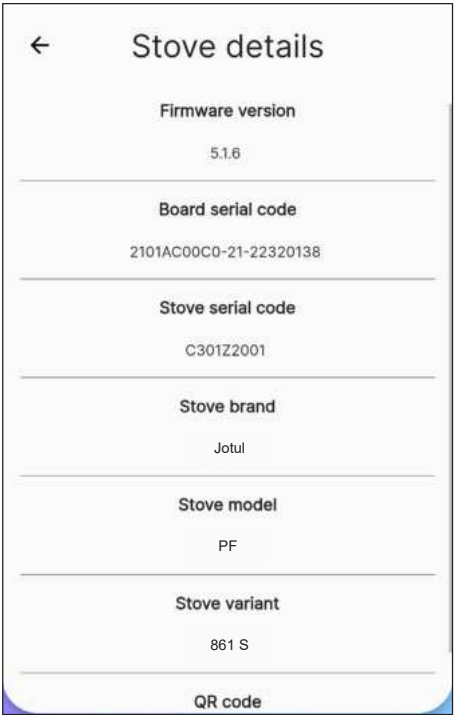


Fig. 10.27

10.6 EVENTS HISTORY

The list includes the events that happened on the appliance, in chronological order, according to the division reported in the table below:

ICON	LABEL	DESCRIPTION
	Info	Operating information
	Warning	Warning that does not stop appliance operation
	Error	Error that stops appliance operation. Seek assistance.
	Critical	Critical event requiring assistance

Example of screen display:

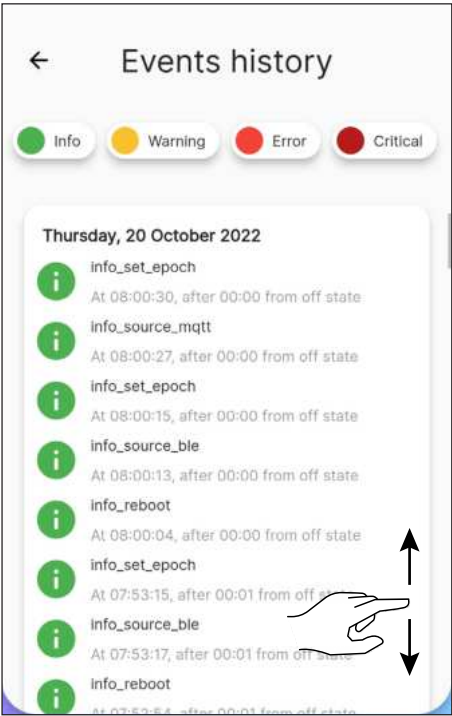


Fig. 10.28

10.7 STATISTICS

The list of recorded mode and operating hours, in chronological order.

By scrolling the screen it will be possible to view all of the acquired statistics.

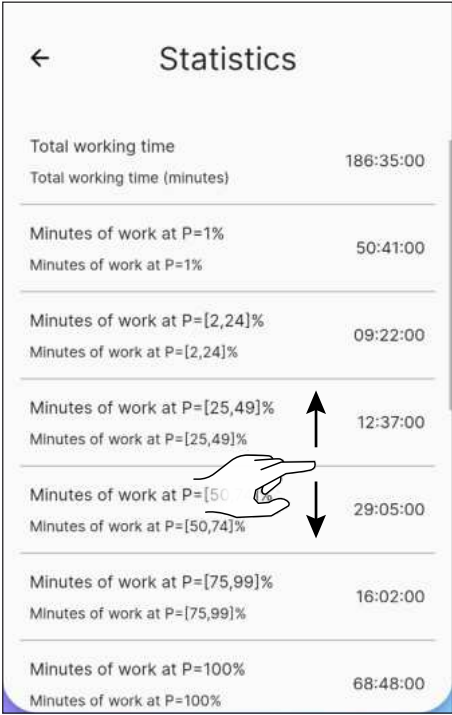


Fig. 10.29

10.8 BLE UPDATE

In the event that the smart device has an active data connection and the software on the stove is of a version prior to the latest release, a message appears when opening the application (Fig. 10.30). If the user does not see the message when opening the application, he can always select the “BLE update” settings submenu to check whether there is actually a new update available for his stove. This message invites you to go to the “Settings menu” and select “BLE update”, thus accessing an initial screen where the application will download the latest version released for each model configured on your account. If the latest version is not automatically downloaded, press the ‘Download FW’ button (Fig. 10.31). If the installed version is different from the latest available version, proceed with the update by pressing the “Next” button and follow the procedure shown on the display (Fig. 10.32). If, on the other hand, the installed version is the same as the latest version available, the message “The stove is updated to the latest version” will appear and the “Next” button will not be selectable (Fig. 10.33).

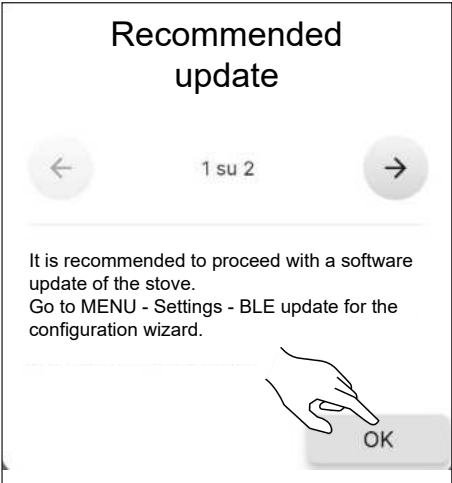


Fig. 10.30



Fig. 10.31

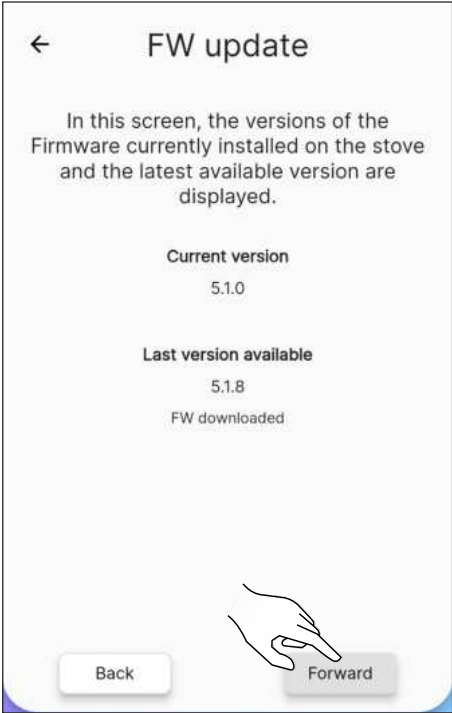


Fig. 10.32

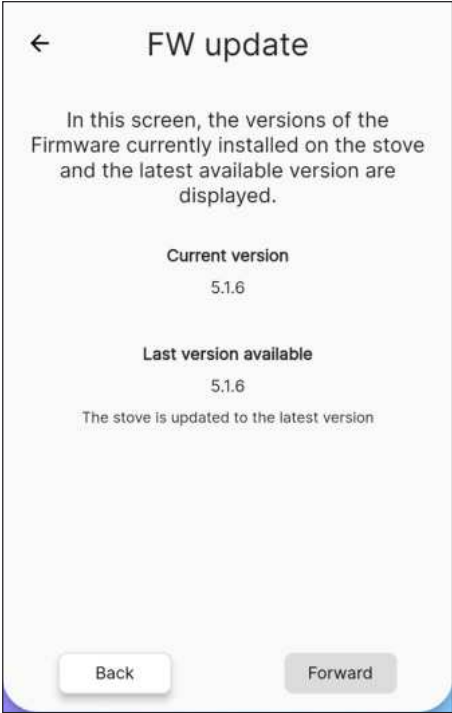


Fig. 10.33

10.9 FACTORY RESET

From the list of settings, select “Factory reset” to restore the data set by the manufacturer and clear the accounts associated to it (including the “owner” account).

Before running a “Factory reset” you must:

- place the stove in “off” without any active errors;
- check that the mobile device has an internet connection when the “Factory reset” command is sent.

A screen will open to manually enter the 16-character code.

Then press the “Reset data” button.



Bluetooth must be connected to perform the reset.

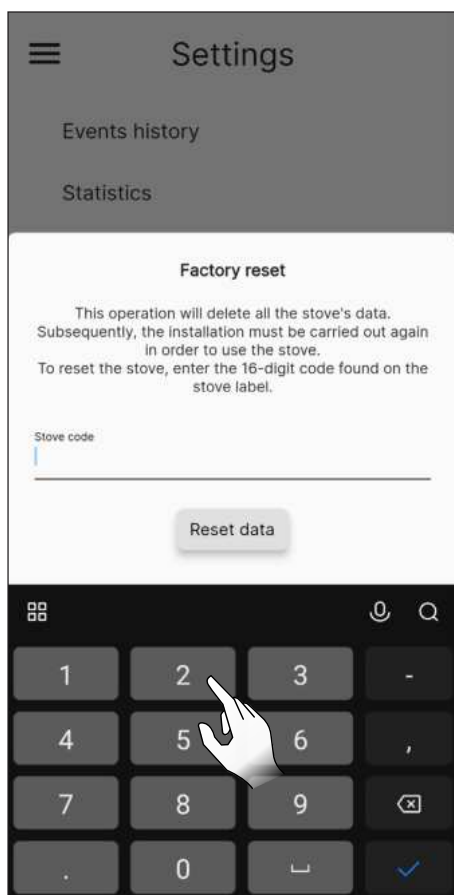


Fig. 10.34

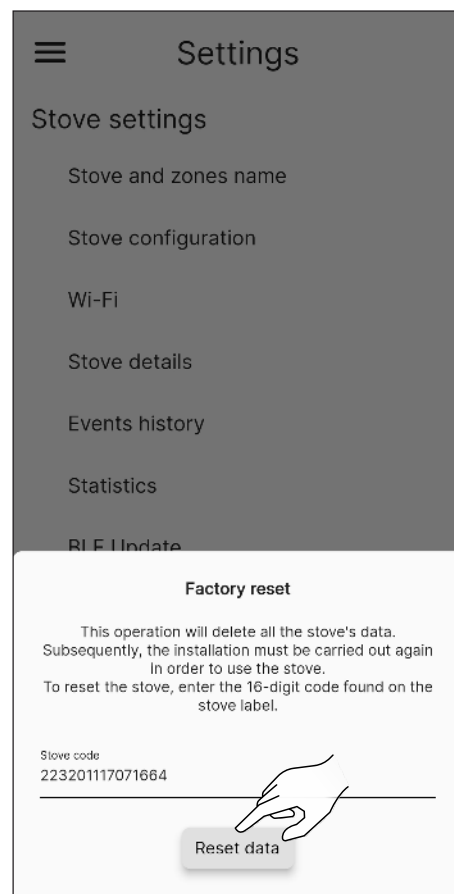


Fig. 10.35

10.10 USER DATA

From this screen you can set the information relative to the appliance's user:

- Email
- First name
- Last name
- Phone



This information is not compulsory.

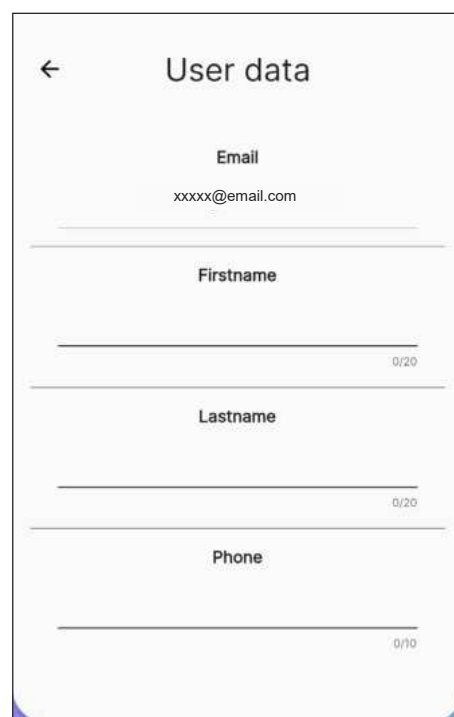


Fig. 10.36

10.11 CHANGE PASSWORD

From this screen you can change the password of the account used for signing in.

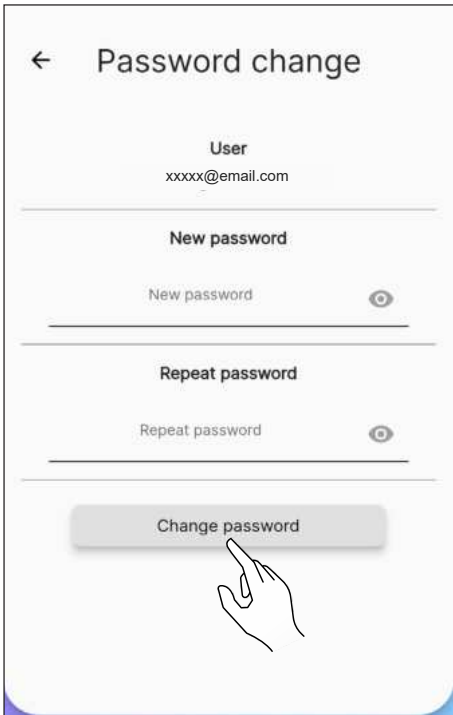


Fig. 10.37

10.12 TERMS AND CONDITIONS



From this screen you can change the privacy terms and conditions, except for the compulsory ones selected previously during the first configuration of the application.

Giving consent to the third condition enables the weather forecast, with reference to the location of the stove. Restart the App to implement the change.

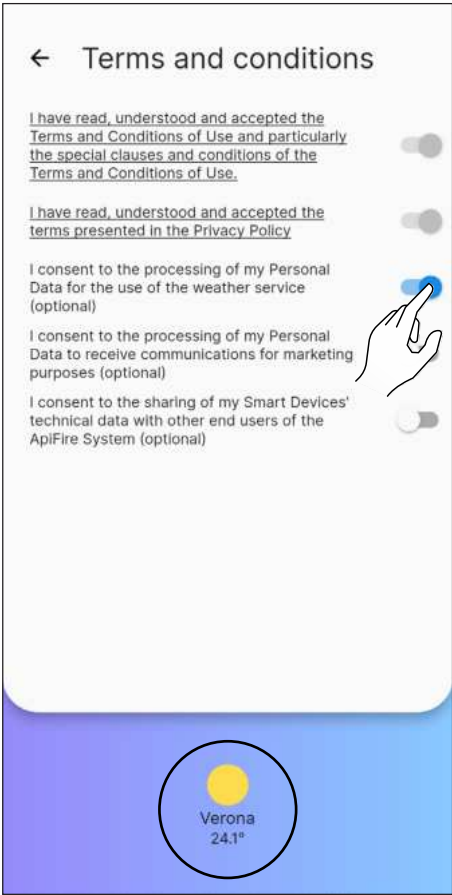


Fig. 10.38

10.13 ACCESS MANAGER

From this screen you can request access to another stove or manage the access requests of other users to the stove that you are the “owner” of, as seen in the paragraph above “Connection with an already configured stove”.

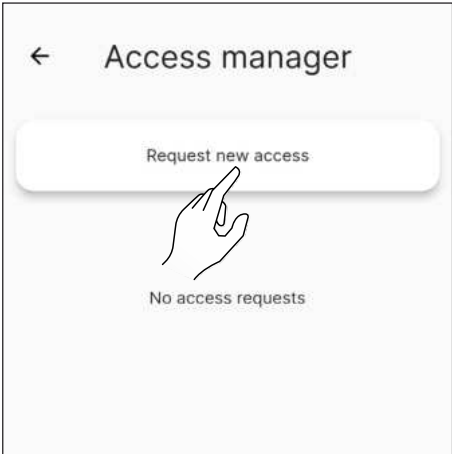


Fig. 10.39

10.14 OPENSOURCE LICENSES

From the settings list, select “Opensource licenses” to open a screen displaying the licenses of the application.

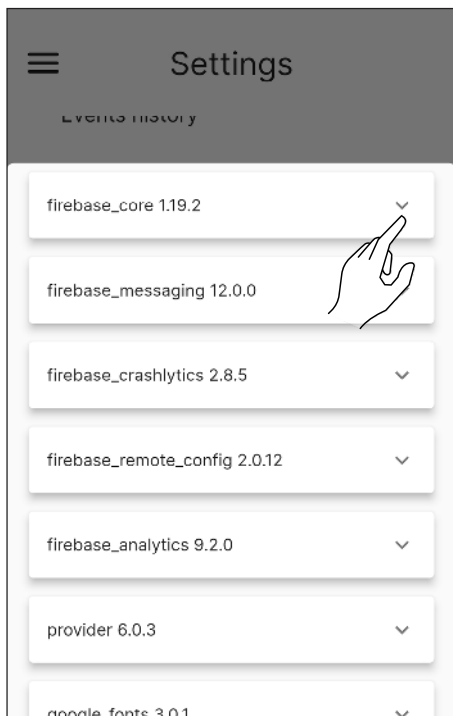


Fig. 10.40

10.15 DELETE ACCOUNT

From the settings list, by selecting “Delete account” it will be possible to delete account without losing any changes.

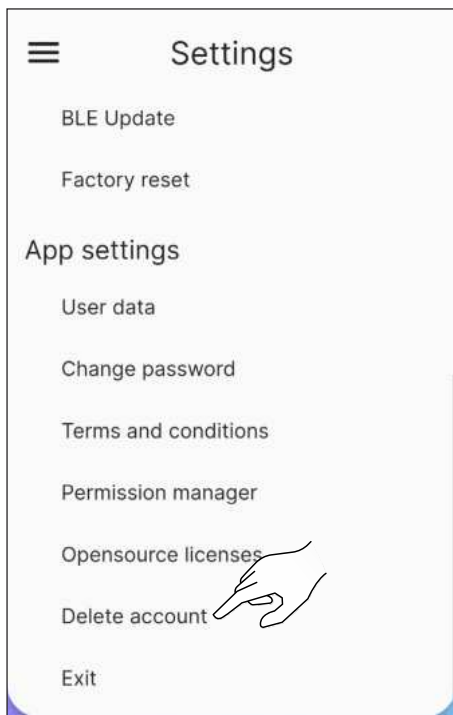


Fig. 10.41

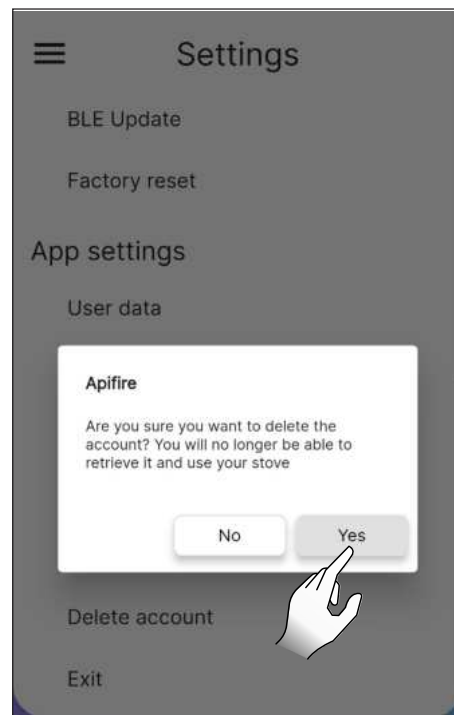


Fig. 10.42



This action is not reversible. You must contact an Authorised Service Centre to reset it.

10.16 EXIT

From the settings list, by selecting “Exit” it will be possible to exit the account.

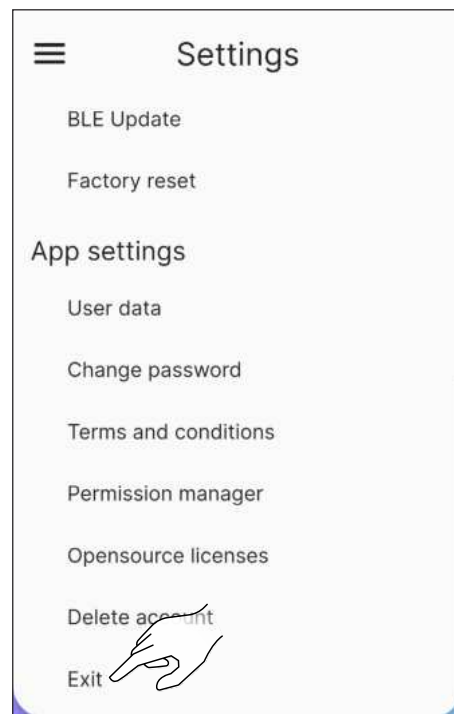


Fig. 10.43



Fig. 10.44

11 “PLANNING” MENU

11.1 PLANNING

From the main menu, press the icon  to access the “Planning” menu.

From this screen (Fig. 81), it will be possible to plan appliance operation and the desired temperature over the course of the day, for each day of the week. By default, this will appear as shown in the picture.

Press on the desired day to open its editing screen.

Use the key  to enable or disable the weekly schedule.

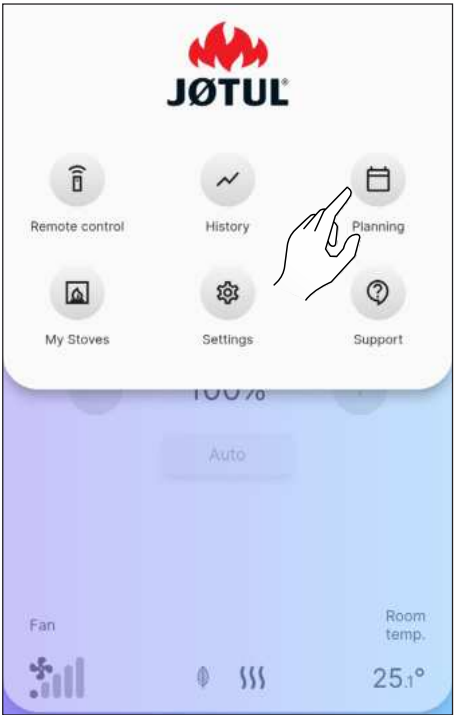


Fig. 11.1

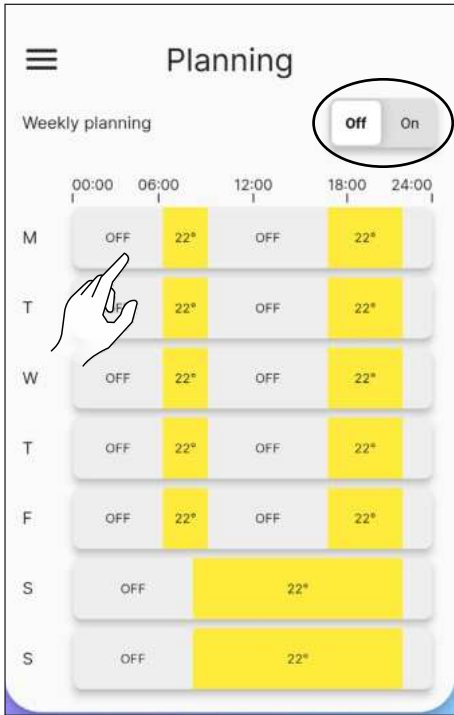


Fig. 11.2

11.2 DESCRIPTION

For each day of the week, it is possible to assign various time slots with different temperatures, one every 15 minutes.

For each slot you can set: start time, end time and desired temperature.

It will always be possible to create or delete new time slots and copy the entire schedule of the day to the other days of the week.

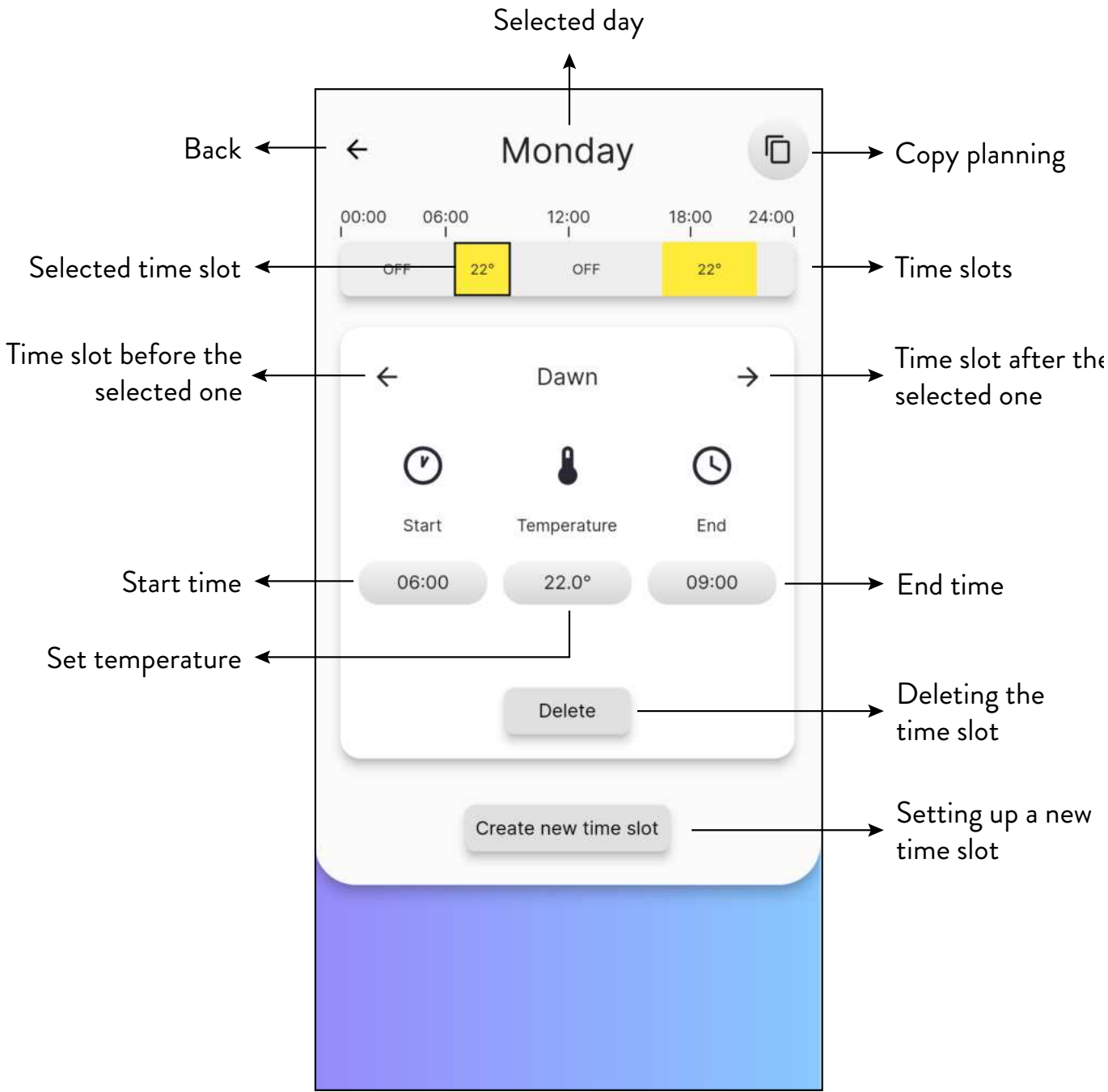


Fig. 11.3

11.3 USE

11.3.1 Managing time slots

Change the start time by pressing the button, indicating the time, under the word “Start”.

Use the buttons **+** and **-** to choose the start time of the slot.

Press “Close” to confirm.

Proceed in the same way to change the end time of the slot.

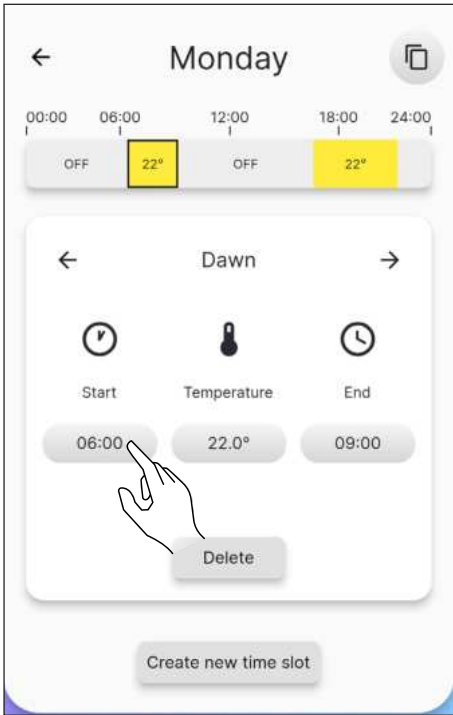


Fig. 11.4

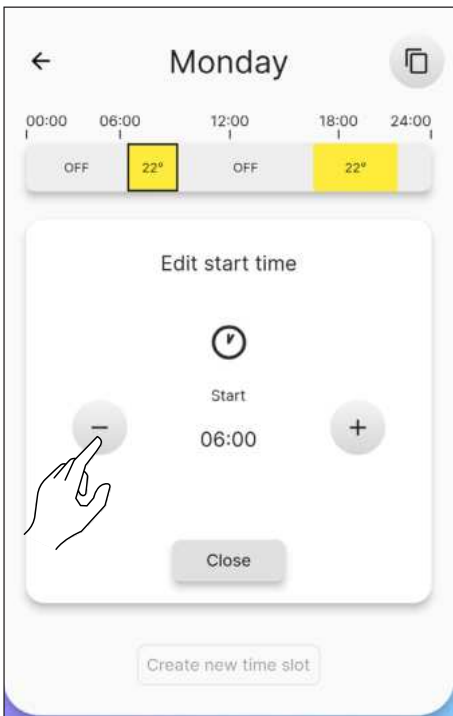


Fig. 11.5

Once the start and end times have been defined, proceed by setting the intended temperature for that slot, similar to the previous steps.

The settable temperatures are: OFF (stove off) and from 10°C to 30°C.

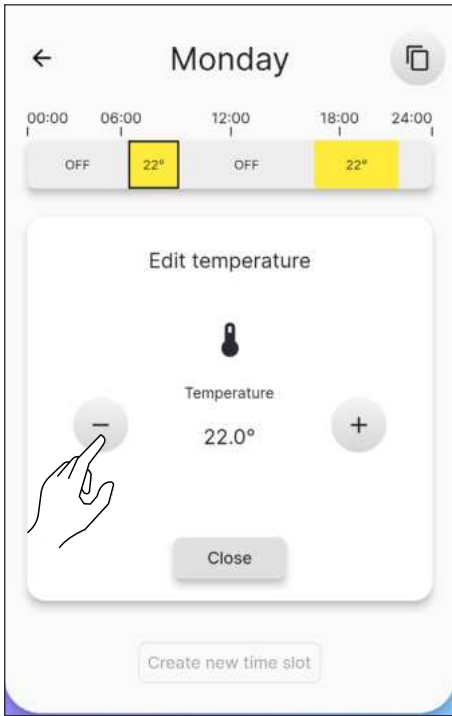


Fig. 11.6

11.3.2 Setting up a new slot

A new time slot is created similarly to the modification of an existing one, by pressing the “Create new time slot” button.



Make sure you previously check the end time of the slot to complete the step correctly.

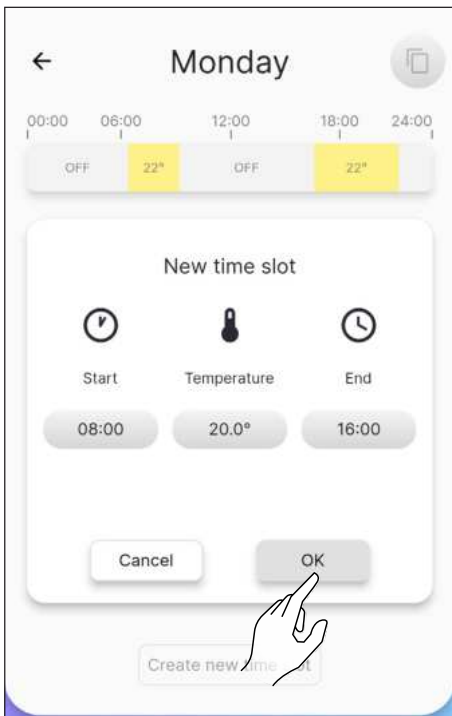


Fig. 11.7

11.3.3 Copying the planning of a day

Example: if you wish to copy Monday's planning on Tuesday as well, simply press the icon  and select "Tuesday".



Fig. 11.8

12 "HISTORY" MENU

12.1 HISTORY

From the main menu, press the icon  to access the "History" menu.

From this screen (Fig. 12.2) it will be possible to view the trend of the temperature in the last 5 days.



Fig. 12.1

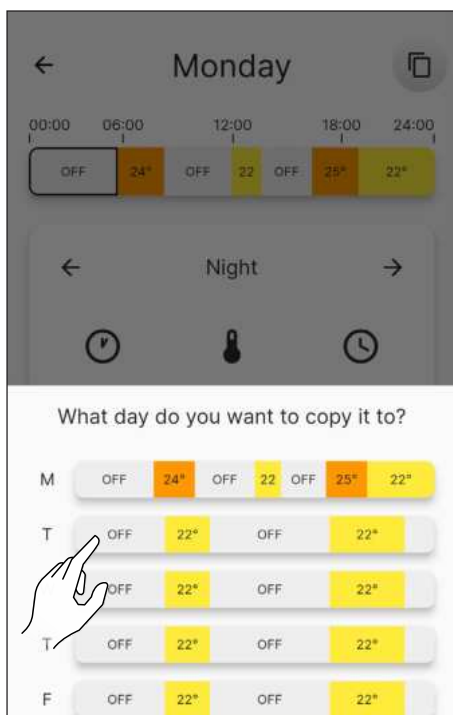


Fig. 11.9

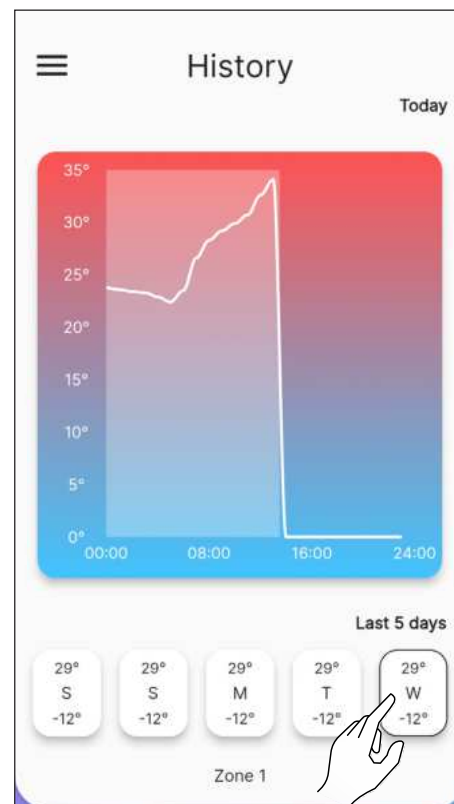


Fig. 12.2

11.4 RESET PLANNING

To reset planning go to the "Settings" menu and press "Stove configuration", scroll to the "Reset planning" function and press the "Reset" button as explained previously (Fig. 10.16).

13 “MY STOVES” MENU

13.1 MY STOVES

From the main menu, press the icon  to access the “My stoves” menu.

From this screen (Fig. 13.2) it will be possible see all of the stoves controlled by this application or add a new stove.

 If you add a new stove, the current one will be disconnected.



Fig. 13.1



Fig. 13.2



Fig. 13.3

14 “SUPPORT” MENU

14.1 SUPPORT

From the main menu press the icon  to go to your email to send the support request.

 For the subject line, write a brief description of the problem, and in the body of the email, after the pre-complied text, a more accurate explanation.



Fig. 14.1



Fig. 14.2

15 USE

15.1 SWITCHING ON



Before each switching on, make sure that the ash drawer is not full and that it is in place.

Hold down the icon  for two seconds to start the appliance.

The words “Powering on...” will appear, and “Current state” will switch from “Off” to:

- Start - control 1
- Start - control 2
- Start
- Start - cleaning
- Start - loading
- Pause
- Start - phase 1
- Start - phase 2
- Start - stabilise
- Work

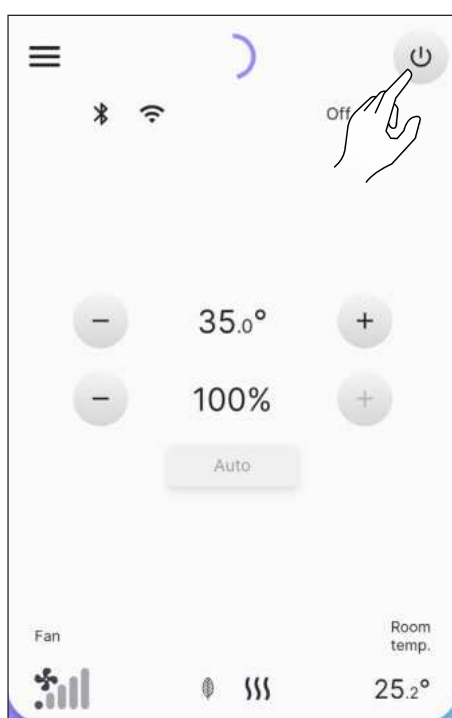


Fig. 15.1



Fig. 15.2



Fig. 15.3



Automatic switching on: the appliance is equipped with an automatic device that switches on the pellet without using other igniters.



Avoid switching the appliance on manually if the automatic switching on system is compromised.



The first time the appliance is switched on, unpleasant odours or smoke can be generated due to the evaporation or drying of some of the manufacturing materials. This will gradually disappear. During the first few uses, we recommend ventilating the rooms well.

15.1.1 “Sealed” appliances

Every time the firebox door and/or pellet hopper are opened, avoid leaving them open for more than a minute to prevent the system from notifying the status of open door and/or open hopper.

15.2 SETTING THE ROOM TEMPERATURE

By changing this value you define the temperature that you want to achieve in the room, read directly by a probe installed on the appliance.

To change the temperature value, press  or . The settable values range from 5°C to 40°C.

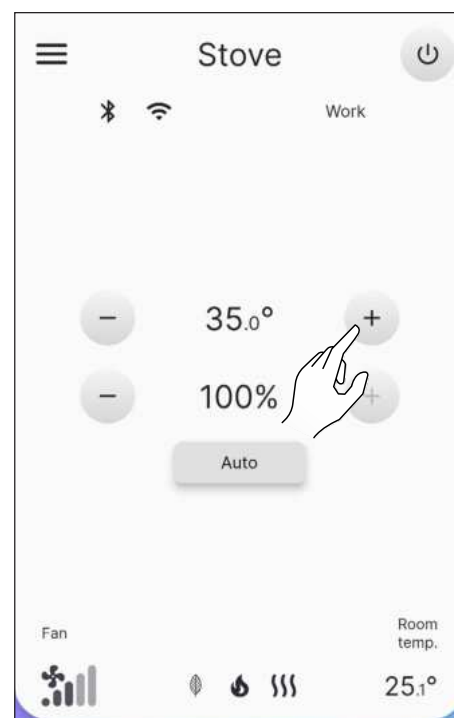


Fig. 15.4

15.3 SETTING THE POWER

The power defines the amount of heat produced by the appliance and therefore indirectly also affects consumption.

To edit the power value press icons  or : the settable values go from 1% (minimum) to 100% (maximum).

To change the power management click on the button in Fig. 15.6. In ‘Auto’ mode (default), the device also takes the room temperature into account, while selecting ‘Manual’ will bias the power, without taking the room probe into account.

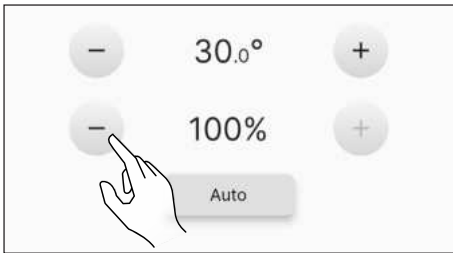


Fig. 15.5

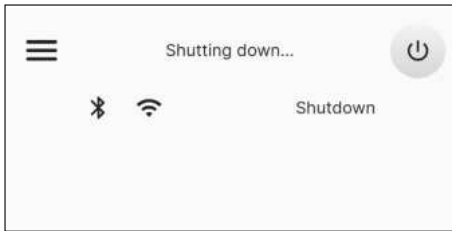


Fig. 15.7

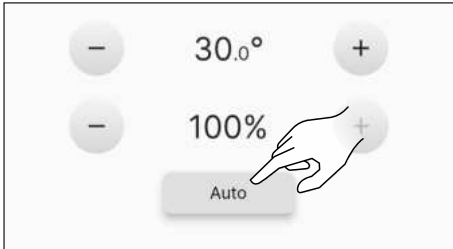


Fig. 15.6

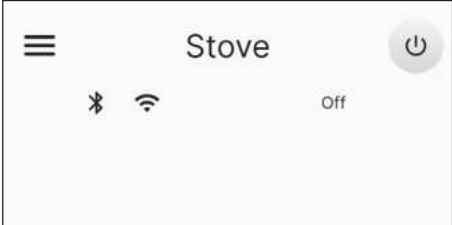


Fig. 15.8

15.4 SETTING THE PARAMETERS

It is possible to change some of the operating parameters according to the “Settings Menu” chapter.



For a new switching on, we recommend waiting for the appliance to cool down completely.

15.5 SHUT-OFF

Hold down the icon  for two seconds to stop the appliance.

The words “Shutting down...” will appear, and “Current state” will switch from “Work” to:

- Shutdown
- Cooling
- Off



The set values will apply until the next variation, also with the appliance switched off or disconnected from the electrical power supply.



We recommend switching off the appliance strictly following the above. It is forbidden to turn the appliance off by switching off the power supply.

15.6 TURNING IT BACK ON AFTER A BLACKOUT

If the power goes out briefly, the appliance will automatically switch back on, checking the safety conditions when the power comes back. If a prolonged interruption occurs, however, the appliance will remain off with a blackout warning.

15.7 OPERATION WITH ROOM PROBE ON BOARD THE STOVE

The appliance can be switched on/off manually or programmed.

The appliance modulates the power (Auto) based on the room temperature read by the on-board probe (it tries to maintain the desired temperature by consuming as little as possible).

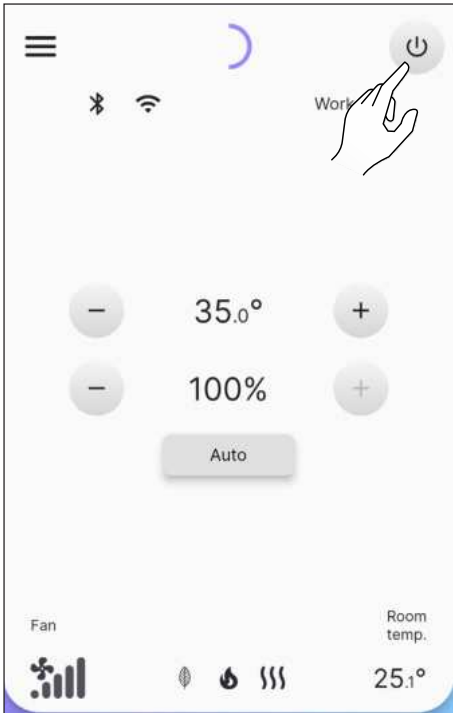


Fig. 15.6

16 ANOMALIES AND POSSIBLE REMEDIES

When an operating anomaly happens, an audible alarm sounds (beep) and the possible cause appears in the application with a brief description.

The errors are divided into:

- **Warning:** simple warning that do not stop appliance operation (in some cases it can limit it). They are reset automatically once the cause that generated them has been removed or has stopped.
- **Error:** errors that stop operation. The appliance switches off. The cause of the alarm message needs to be resolved before turning the appliance back on again.
- **Critical:** errors that stop operation. The appliance switches off. It is necessary to request the intervention of the Assistance Centre.

16.1 WARNING

Example of what a warning looks like.

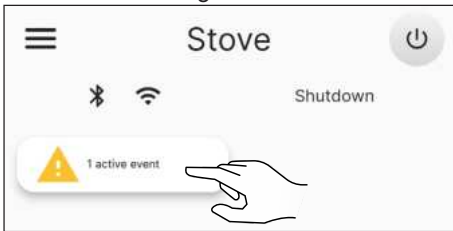


Fig. 16.1

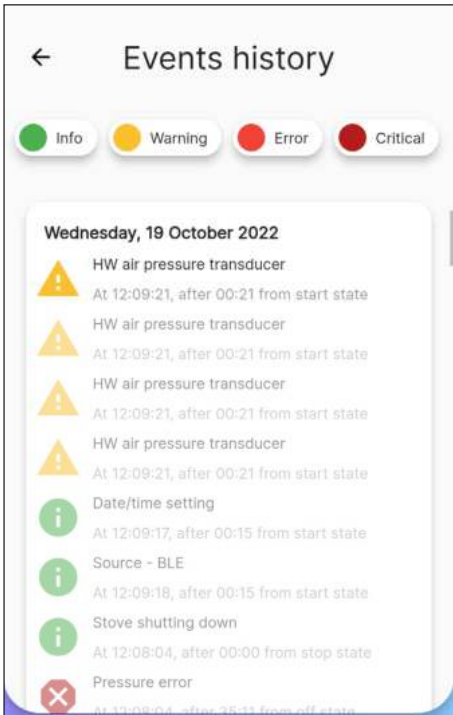


Fig. 16.2

16.2 ERROR

Example of what an error looks like.

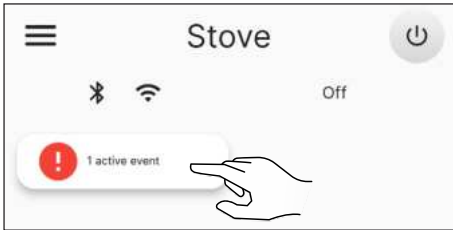


Fig. 16.3

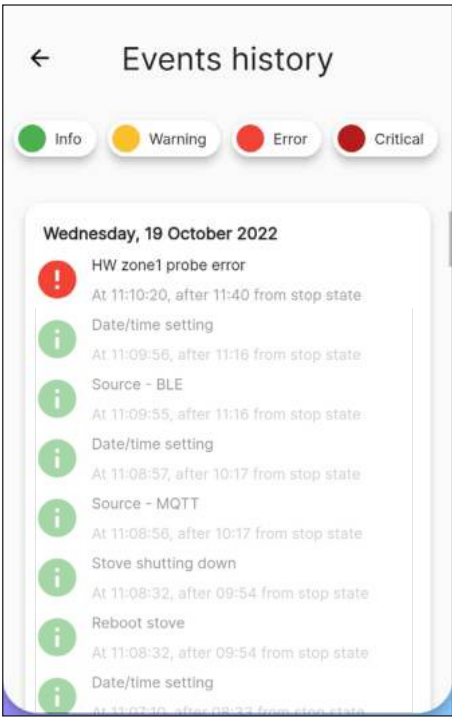


Fig. 16.4

16.3 CRITICAL

Example of what a criticality looks like.

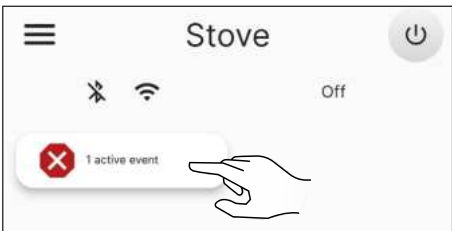


Fig. 16.5

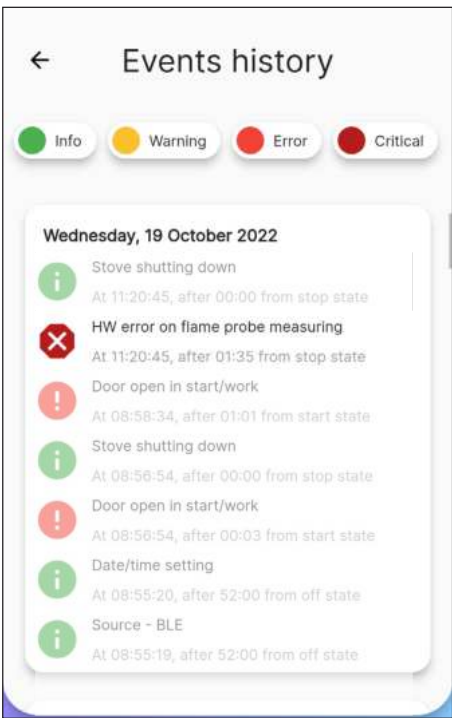


Fig. 16.6

16.4 OUTLINING TABLE OF POSSIBLE ANOMALIES

TYPE	DISPLAYED TEXT	REASON	POSSIBLE SOLUTIONS
Warning	Air pressure transducer HW error (AL 14)	No or incorrect connection of the pressure outlets	Check the connection of the pressure outlets
	Pellet shortage (AL 33)	Pellets running low	Verify pellet presence in the tank. Load if needed.
	High flue gas temperature warning (AL 40)	Over-temperature read by the flue gas probe	Switch off and on again. Seek the Assistance Service if the problem continues.
	High board temperature warning (AL 41)	Over-temperature read by the probe inside the board	Check that the air passages on the back of the appliance are not obstructed
	Maintenance request warning (AL 46)	Appliance maintenance period due date	Program the next maintenance
Error	HW error room probe 1 (AL 04)	Faulty or blown probe	Seek Assistance Service
	HW error smoke extractor motor (AL 16)	Smoke extractor motor faulty or not working	
	HW error auger motor (AL 17)	Auger motor faulty or not working	
	Switching on start-up failure 1 (AL 23)	Pellet hopper empty	Switch it on again or seek the Assistance Service if the problem continues
		Pellet calibration and suction during switch-on is inappropriate	
		The switch-on resistor is defective or not in position	
		Incorrect reading of flue gas probe and/or chamber probe	
	Switching on start-up failure 2 (AL 24)	Pellet calibration and suction during switch-on is inappropriate	
		The switch-on resistor is defective or not in position	
		Incorrect reading of flue gas probe and/or chamber probe	
	No stabilisation (AL 25)	Pellet calibration and suction during switch-on is inappropriate	
		Incorrect reading of flue gas probe and/or chamber probe	
	No flame during operation (AL 26)	Pellet hopper empty	
		Incorrect reading of flue gas probe and/or chamber probe	
	No power during operation (AL 31)	Temporary blackout	
	Pressure switch switched on inconsistently (AL 32)	Pressure switch on when it should not be	Try opening the pellet door and resetting the alarm or seek the Assistance Service if the problem continues
	Auger motor torque error (AL 48)	Incorrect sensor reading. Fault in auger motor.	Seek Assistance Service
	HW alarm no auger power supply (AL 49)	No auger power supply	Check that the doors are closed. Contact the Service Department if the problem persists
	HW error cleaner motor (AL 50)	Cleaner motor faulty or not working	Seek Assistance Service

TYPE	DISPLAYED TEXT	REASON	POSSIBLE SOLUTIONS
Critical	Pellet hopper over-temperature alarm (AL 01)	Automatic re-arming thermostat connected to the hopper has tripped	Seek Assistance Service
	Board over-temperature (AL 03)	The maximum temperature allowed for the board has been exceeded	
	HW error flue gas probe (AL 07)	Faulty or blown probe	
	Smoke over-temperature (AL 19)	The maximum temperature allowed for the smoke has been exceeded	
	Air pressure controller error (AL 27)	The pressure switch is malfunctioning	
	Unexpected air flow rate (AL 30)	Incoherent air flow rate reading	



The 'Warning', 'Error' and 'Critical' messages will disappear from the main screen on the next restart, if resolved.

17 CONTROL PANEL

A simple control panel (Fig. 17.2) is available at the rear of the stove or as an accessory, with which basic operations can be carried out. This device, if not already integrated in the stove, must be connected to the connector (Fig. 17.1) using the supplied cable.



Fig. 17.1

17.1 DESCRIPTION

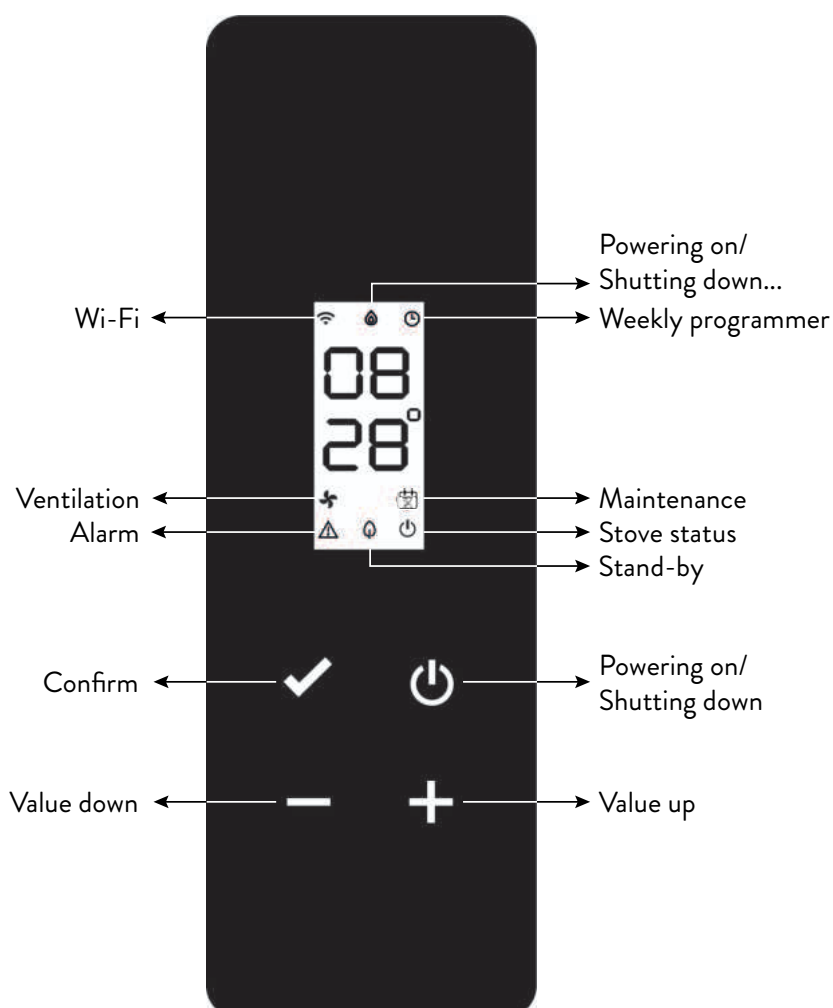


Fig. 17.2

17.2 STATUS VIEWS

ICON	STATUS	DESCRIPTION
	On	Valid connection to the Cloud service, with indication of signal quality
	Increasing animation	Wi-Fi connecting or invalid Wi-Fi parameters
	Off	Wi-Fi parameters not entered
	Off	Stove off
	Switching on animation	Stove in switching on phase
	Switching off animation	Stove in automatic switching off phase
	Flashing	Stove in test phase or warm start request needs confirming
	On	Stable flame and stove in work
	On	Weekly programmer on and active
	Flashing	Switching on/Switching off from weekly programmer intervention
	Quick flashing	Weekly programmer not set correctly
	On	Tangential fan active on zone 1
	On	Technical intervention requested due to expired scheduled maintenance threshold
	Flashing	Stove in test mode
	Flashing	Stove in alarm (the relative alarm code will appear*)
	On	Stand-by function enabled
	Flashing	Powering on /Shutting down if stand-by active
	Off	Stove off
	On	Stove on

* See outlining table of possible anomalies

17.3 POSSIBLE OPERATIONS

The following operations are possible from the home page:

ICON	PRESSURE	VIEW/SETTING	VALUES
	Short	View current time	
	Long	Stove on/off (in normal operation and/or for restart after a fault)	on, oFF
	Short	Confirm entered value	
	Long	Enter the user menu	See "User menu" paragraph
	Short	Desired zone 1 temperature setting using keys  or 	Default: 20 °C Minimum: 0 °C Maximum: 40 °C
		Auto/manual mode setting (if thermostat active) using keys  or 	F Aut, F nor
	Short	Stove power setting using keys  or 	Default: P 100 Minimum: P 1 Maximum: P 100
	Long	Start preload cycle (if stove on off, no alarms)	LoAd

17.3.1 Control panel user menu

After pressing the  key the following items will appear in ascending order and it will be possible to edit them:

DESCRIPTION	VALUES
Enable weekly programmer	P on, P oFF
Auto/manual mode setting	F Aut, F nor
Pellet type setting	From PL -5 to PL 5
Enable stand-by function	S on, S oFF
Enable thermostat infeed	t on, t oFF



After waiting 10 seconds from the last key to be pressed, the display will go back to the main page without saving any changes.

18 MAINTENANCE

18.1 SAFETY WARNINGS FOR MAINTENANCE



Maintenance of the stove must be performed at least once a year and should be planned in advance with the Technical Assistance Service.



In some conditions, such as turning the stove on and off or inappropriate use, the combustion products can contain small soot particles that build up in the smoke evacuation system. This can reduce the cross-section of the smoke duct and pose a fire risk. The smoke evacuation system must be inspected and cleaned at least once a year.



The maintenance operations must be carried out when the stove is cold and with the electrical power supply disconnected.

Before completing any maintenance operation, adopt the following precautions:

- Make sure that the power supply plug is disconnected.
- Make sure that all stove parts are cold.
- Make sure that the ashes are completely cold.
- Always operate with equipment that is appropriate for maintenance.
- When maintenance is finished, re-install all of the disassembled parts before restarting operation.



The quality of the pellet, the stove operating mode and combustion control can affect maintenance activity frequency.

18.2 CLEANING



Perform the cleaning operations so as to guarantee correct stove operation.

The table below lists the necessary cleaning operations required for correct stove operation.

PARTS / FREQUENCY	2 - 3 DAYS	30 DAYS	60/90 DAYS
Ash compartment		X	
Glass	X		
Combustion chamber		X	
Pellet tank		X	
Extraction duct			X



It is recommended in the early periods of use of the stove, or of a new type of pellet, to carry out cleaning operations frequently, so as to be able to assess the exact frequency of intervention.

18.2.1 Cleaning the ash drawer

The ash drawer must be cleaned in accordance with the time the stove has been in use and the type of pellets used.
Proceed as follows to clean the ash drawer.

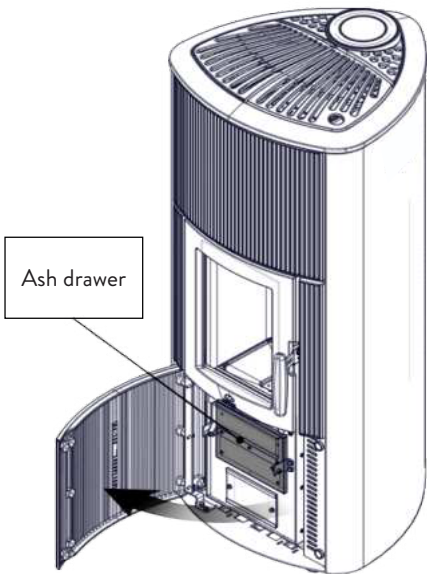


Fig. 18.1

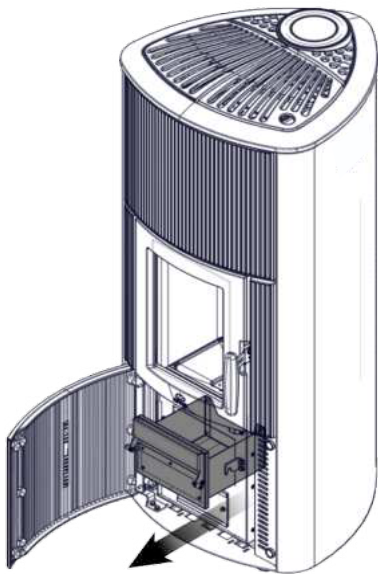


Fig. 18.2

18.2.2 Glass cleaning

With a cold stove, clean the glass with a cloth and glass cleaner.
Note: there are stove glass cleaning products available on the market.

18.2.3 Combustion chamber cleaning

To clean the combustion chamber, proceed as described below:

STEP	ACTION
1	Vacuum the residue in the combustion chamber with an ash extractor, ensuring that the ashes are completely extinguished (Fig. 18.3).

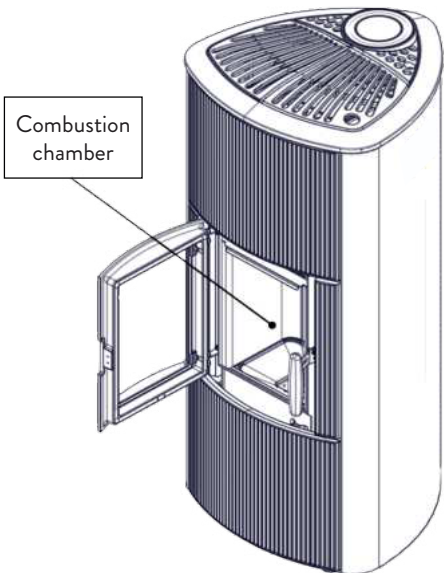


Fig. 18.3

18.2.4 Cleaning the pellet tank

To clean the pellet tank, proceed as follows:

STEP	ACTION
1	Periodically remove the wood sawdust accumulated on the bottom of the tank, using a vacuum cleaner

18.2.5 Extraction duct cleaning

Periodically check that the extraction duct is free from obstructions (dust, animal hair ...) and remove them if necessary.

18.3 EXTRAORDINARY MAINTENANCE



Maintenance operations must be carried out with the stove cold and with the power supply disconnected.



Extraordinary maintenance activities must be carried out by staff from the Authorised Assistance Centre.



Do not wait for components to be deteriorated by use before proceeding with their replacement. Replace a worn component before it is completely broken to prevent any damage caused by sudden component breakage.

PARTS / FREQUENCY	1 SEASON
Deep combustion chamber cleaning	X
Door gasket	X
Chimney	X
Smoke conduit	X

Schedule the above extraordinary maintenance activities with the Authorised Assistance Centre.

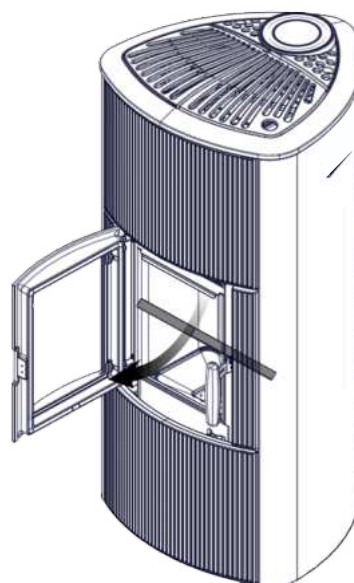


Fig. 18.5

18.3.1 Deep combustion chamber cleaning



This operation must be carried out by a Jotul Assistance Centre.



Schedule this type of cleaning with the Jotul Assistance Centre.

To clean the combustion chamber, proceed as described below.

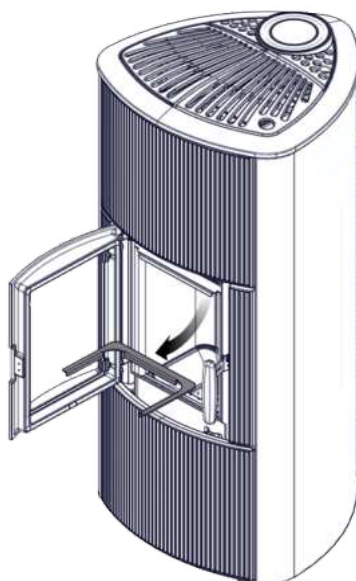


Fig. 18.4

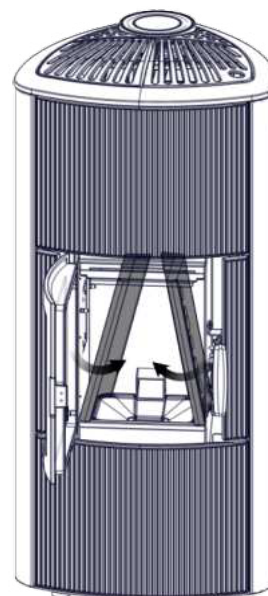


Fig. 18.6

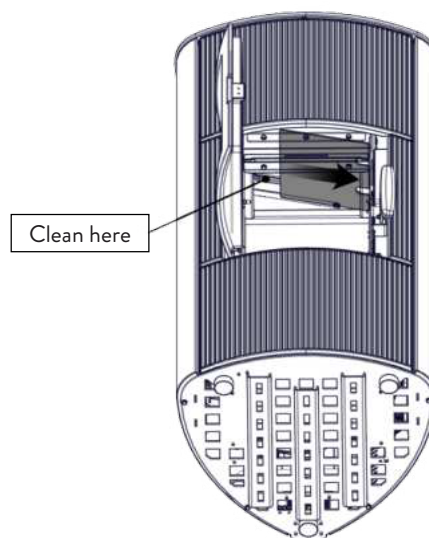


Fig. 18.7

After cleaning the combustion chamber, it is advisable to proceed with the cleaning of the inspection hatches as indicated in the paragraph “Smoke duct cleaning”.

18.3.2 Checking the gaskets

This operation must be carried out by a Jotul Service Centre. Plan this type of cleaning with the Jotul Service Centre.

When thoroughly cleaning the stove, the authorised technician must check that the gaskets of

- door
 - ash drawer
 - inspection hatches
- are intact. If not, they will have to be replaced.

18.3.3 Smoke conduit cleaning

This operation must be carried out by a Jotul Assistance Centre. Schedule this type of cleaning with the Jotul Assistance Centre.

The stove is equipped with some hatches for cleaning the internal smoke ducts.

To clean the smoke ducts, proceed as described below:

STEP	ACTION
1	Remove vermiculitis (see section 18.3.1)
2	Open the hatches
3	Clean the ashes, eventually use a brush or similar and reassemble everything. Note: the hatches are equipped with gaskets, therefore, before reassembling them, make sure that the gaskets are not worn

Note: The operation must be carried out when the stove is cold, using an ash vacuum cleaner.

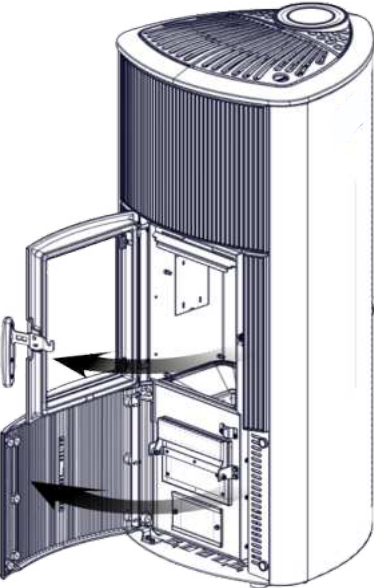


Fig. 18.8

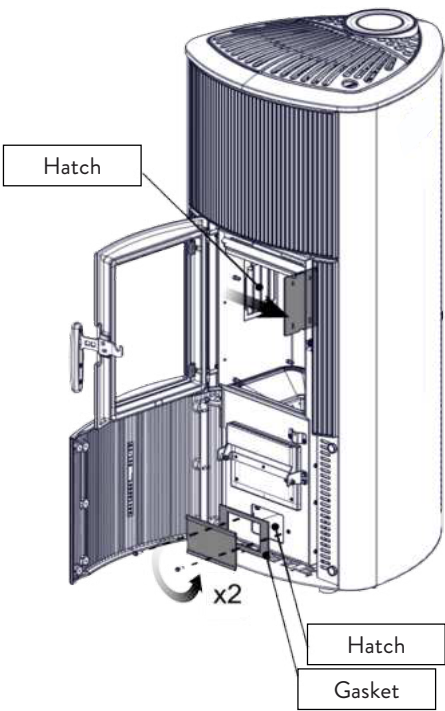


Fig. 18.9

19 TROUBLESHOOTING

19.1 THE STOVE DOES NOT WORK

- closely follow the directions in the dedicated chapter of this manual;
- make sure that the air intake duct is not obstructed;
- make sure that the smoke evacuation system is clean and not obstructed;
- make sure the chimney is sized for the stove power;
- make sure that the air intake in the room is clear of any obstructions and that there are no other combustion appliances or extraction hoods that create a vacuum in the room.

19.2 DIFFICULT LIGHTING

- closely follow the directions in the dedicated chapter of this manual;
- make sure that the air intake duct is not obstructed;
- make sure that the smoke evacuation system is clean and not obstructed;
- make sure the chimney is sized for the stove power.
- make sure that the air intake in the room is clear of any obstructions and that there are no other combustion appliances or extraction hoods creating a vacuum in the room.

19.3 SMOKE LEAKAGE

- Check the draught of the chimney.
- Check whether the seals on the door, drawer and smoke evacuation system are intact.
- Make sure there is no ash obstructing the primary air flow grille.

19.4 THE GLASS GETS DIRTY EASILY

- Only use recommended fuels.
- Check the draught of the chimney.

19.5 DOWNTIME (END OF SEASON)

At the end of every season we recommend vacuuming out any ash and dust that may still be inside. It is advisable to let the pellets burn out in the tank so that the pellet remains and sawdust can be vacuumed from the bottom and from the screw.

Disconnect the stove from the power supply.

With thermo-stove or boiler, it is not necessary to empty it of water, but it is advisable to close the shut-off valves at the inlet and outlet for prolonged downtime.

20 DISPOSAL AT END OF SERVICE LIFE

20.1 WARNINGS FOR CORRECT DISPOSAL OF THE PRODUCT

Demolition and disposal of the stove is under the exclusive liability and responsibility of the owner who must do so in accordance with the laws in force in the country of installation pertaining to safety, respect and protection of the environment.

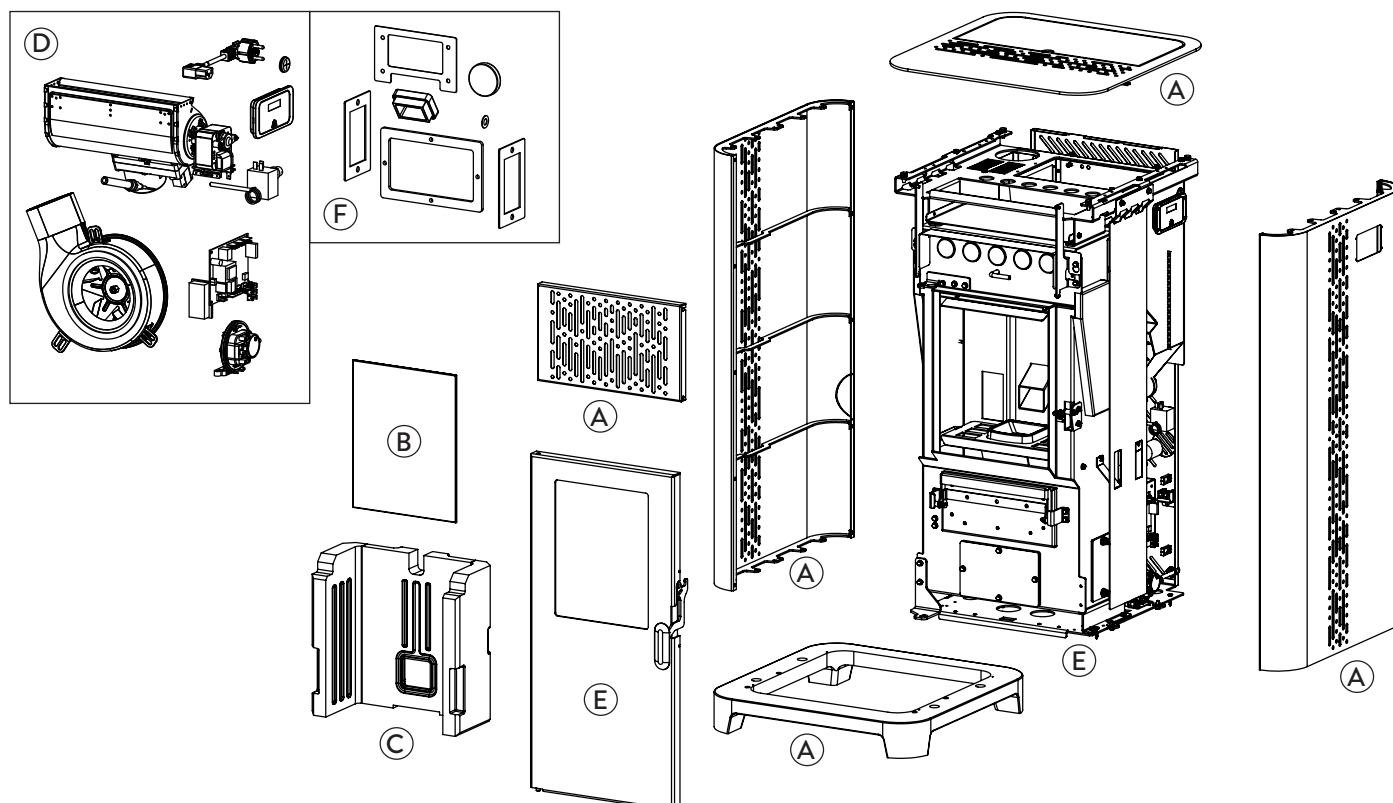
At the end of its service life, the product must not be disposed of as household waste. It can be taken to designated separate waste collection centres run by local administrations or to dealers who offer this service.

Disposing of the product as sorted waste avoids any negative consequences on the environment and health deriving from unsuitable disposal and it recovers the materials that the stove is composed of in order to save considerable energy and resources.

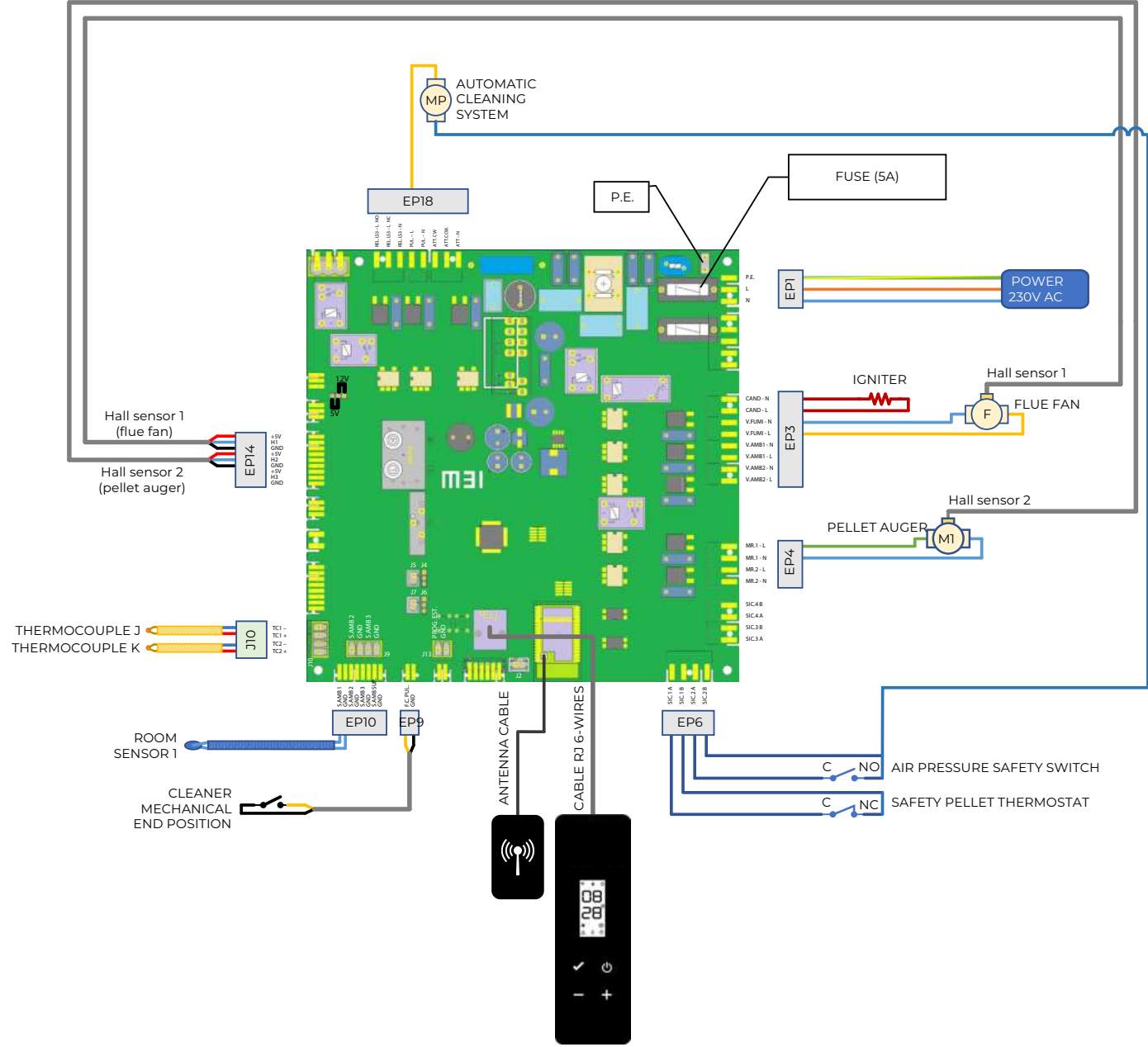
The following table and relative exploded view (image for illustrative purposes only) to which it refers, highlights the main parts that can be found in the device and the instructions for their correct separation and disposal at the end of their service life.

In particular, electric and electronic parts must be separated and disposed of at centres authorised for such activities, pursuant to directive WEEE 2012/19/EU and its national transpositions.

A EXTERNAL CLADDING	If present, dispose of it according to the material it is made of: - Metal - Glass - Tiles or ceramic - Stone - Wood
B DOOR GLAZING	If present, dispose of it according to the material it is made of: - Glass-ceramics (fire door): dispose of with inert or mixed waste - Tempered glass (oven door): dispose of in glass
C INTERNAL CLADDING	If present, dispose of it according to the material it is made of: - Metal - Refractory materials - Insulation panels - Vermiculite - Insulation, vermiculite and refractory materials that come into contact with the flame or exhaust gases (dispose of in mixed waste)
D ELECTRICAL AND ELECTRONIC COMPONENTS	- Cables - Motors - Fans - Circulators - Displays - Sensors - Spark plugs - Electronic boards - Batteries Dispose of separately at authorised centres, in accordance with WEEE 2012/19/EU and its national transposition
E METAL STRUCTURE	Dispose of separately in metal
F NON- RECYCLABLE COMPONENTS	- Gaskets - Rubber, silicone or fibre hoses, plastics Dispose of in mixed waste



ELECTRICAL DIAGRAM
Jøtul PF 861 S



TECHNICAL DATA

Jøtul PF 861 S

(according to standard EN 16510-1:2022; EN 16510-2-6:2022)

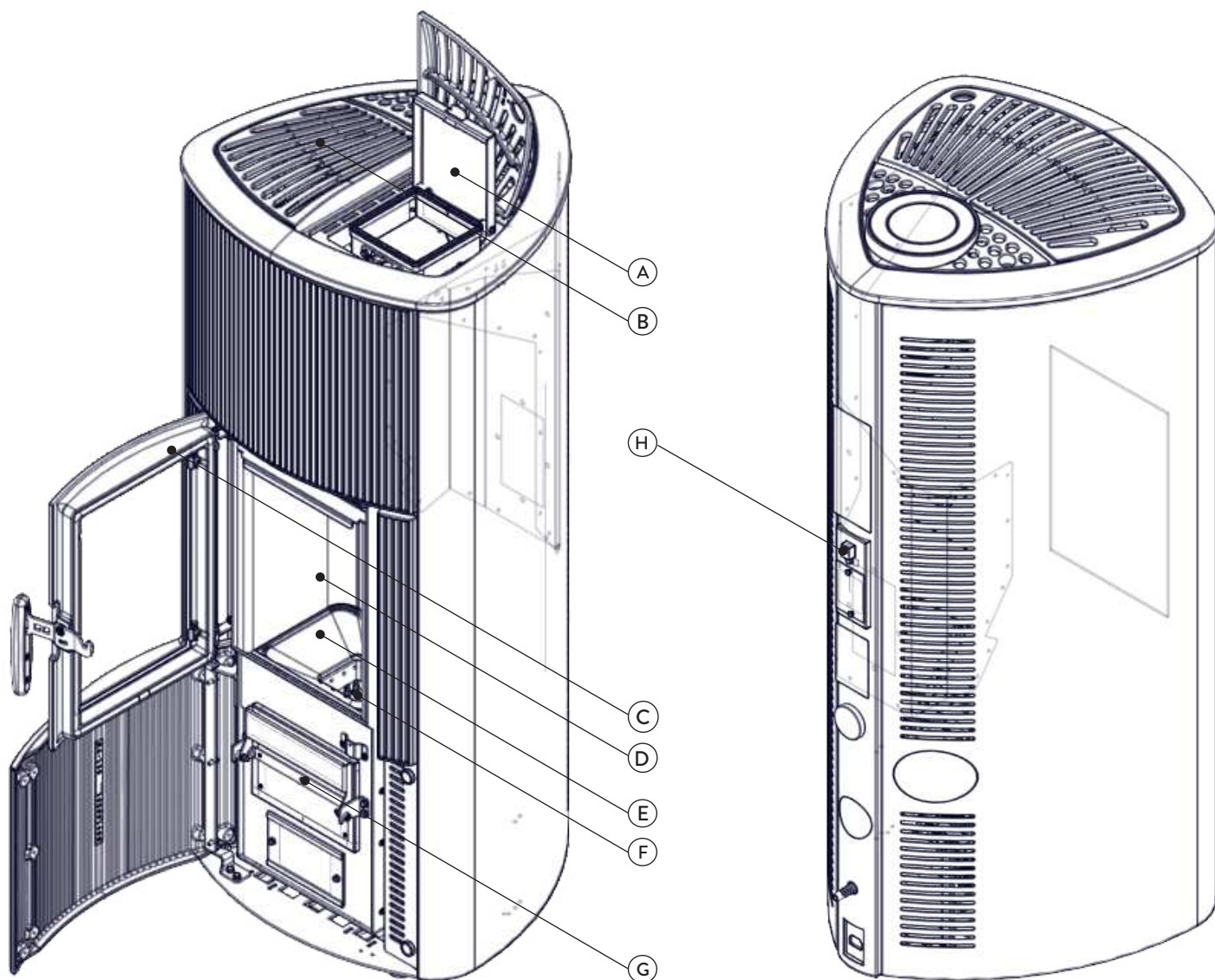
		UNIT OF MEASURE	PF 861 S
Type	Product classification		CM50
	Environmental quality class	★	5
	Energy efficiency class		A++
EEI	Energy efficiency index		131
	Fuel	Wood pellets Ø6	
P_{in}	Power introduced Red. - Nom.	kW	3,1 - 8,9
$P_{part} - P_{nom}$	Power output Red. - Nom.	kW	2,9 - 8,2
$\eta_{part} - \eta_{nom}$	Efficiency Red. - Nom.	%	92 - 92
	Hourly pellet consumption Red. - Nom.	kg/h	0,8 - 1,83
	Autonomy min. - max.	h	7 - 18
	Heating volume *	m ³	145 - 225
$CO_{part} - CO_{nom}$	CO at 13% di O ₂	mg/m ³	187 - 78
$OGC_{part} - OGC_{nom}$	OGC at 13% O ₂	mg/m ³	2 - 4
$NO_{X_{part}} - NO_{X_{nom}}$	NOX at 13% O ₂	mg/m ³	145 - 96
$PM_{part} - PM_{nom}$	PM at 13% O ₂	mg/m ³	9 - 14
$T_{s_{part}}$	Flue gas temperature Red.	°C	121
$T_{s_{nom}}$	Temperature in the flue pipe at nominal output	°C	164
T_{class}	Minimum chimney designation		T200 G
m_{chim}	Maximum flue load that the stove can support	kg	0
$\varnothing_{f,g_{part}} - \varnothing_{f,g_{nom}}$	Flue flow rate	g/s	3 - 5
$P_{part} - P_{nom}$	Min. draught	Pa	10 - 9
E, f	Power supply	V - Hz	230 - 50
W_{max}	Max. electrical power consumption	W	320
$el_{min} - el_{max}$	Electrical power in operation Red. - Nom.	kW	0,010 - 0,024
el_{SB}	Electric power in stand-by	KW	0,003
d_{in}	Combustion air intake inlet	mm	130
d_{out}	Ø smoke outlet pipe	mm	80
	Tank capacity	kg	14
η_s	Seasonal energy efficiency	%	89
CON/INT	Continuous operation (CON) / Intermittent operation (INT)	CON	
	Type of room temperature control	With electronic room temperature control and weekly timer	
	Other control options	With remote control option	

The data shown are indicative and not binding and may vary depending on the type of pellet used. Ravelli reserves the right to make any changes in order to improve product performance.

* Values calculated for an average insulated building (35 W/m³, Climate Zone E) and for a non-insulated building (55 W/m³, Climate Zone E).

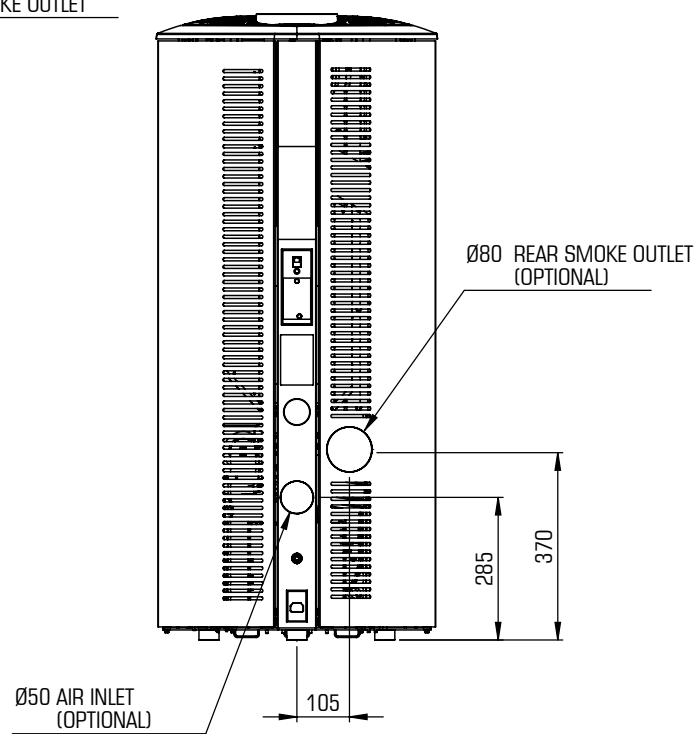
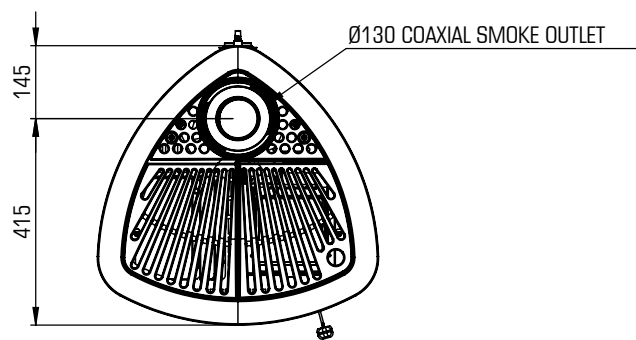
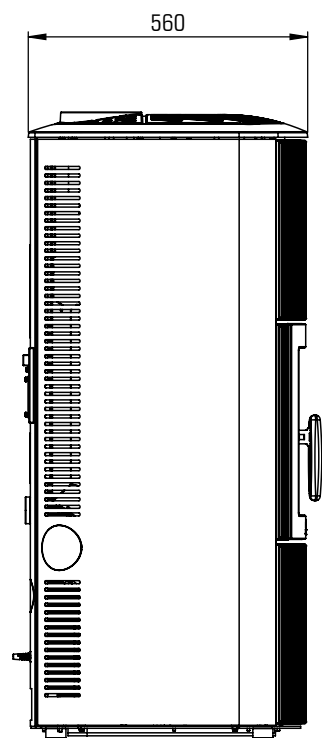
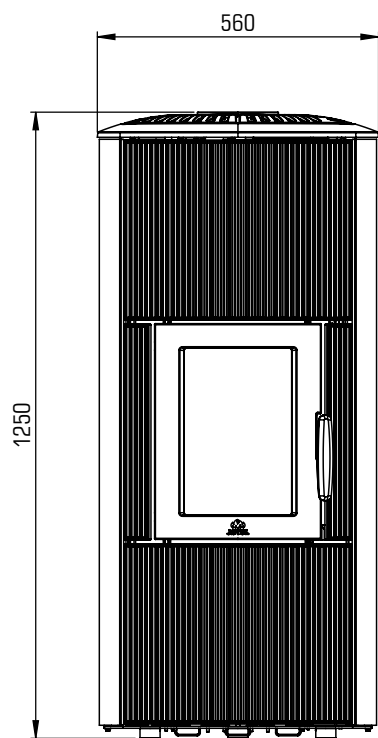
PRODUCT DESCRIPTION

Jøtul PF 861 S



A	Pellet cover
B	Grid for air passage
C	Combustion chamber door
D	Combustion chamber
E	Slide for ashes
F	Fire pot
G	Ash drawer
H	Connector for control panel

DIMENSIONS
Jøtul PF 861 S



		PF 861 S	UNIT OF MEASUREMENT
H	HEIGHT	1250	mm
L	WIDTH	560	mm
W	DEPTH	560	mm
m	WEIGHT	185	kg