EDILKAMIN
TECNOLOGIA DEL FUOCO

PELLET BOILER STOVE

MILLA H 15 *Up*
MILLA H 12 *Up*

For all updates visit www.edilkamin.com

The original language of this manual is Italian

The undersigned, EDILKAMIN S.p.A., with registered office in Via P. Moscati 8 - 20154 Milan (Italy) - Tax ID Code and VAT number 00192220192

Hereby declares, under its sole responsibility, that:
the pellet stoves mentioned below comply with Regulation (EU) No. 305/2011 and the harmonised European standard
EN 14785:2006

PELLET STOVES, bearing the EDILKAMIN trademark, named
MILLA H 12 *up*
MILLA H 15 *up*

SERIAL NO.: Rating plate reference
MILLA H 15 *up* Dichiarazione di prestazione (DoP - EK n° 174)
MILLA H 12 *up* Dichiarazione di prestazione (DoP - EK n° 174A)

Moreover, the company hereby declares that:
the above-mentioned wood-burning pellet stoves satisfy the requirements of the following European directives:
2014/35/EU - Low Voltage Directive
2014/30/EU - Electromagnetic Compatibility Directive
2011/65/EU - RoHS
2009/125/EU - Ecodesign
2010/30/EU - Labelling

Up is a commercial suffix to indicate The Mind

Dear Sir/Madam,
thank you for choosing our product and congratulations on your choice. Before using it, we kindly ask you to read this manual carefully, so that you can make the most of all its functions in total safety.

This manual is an integral part of the product. We ask you to keep it for the entire lifetime of the product. If you lose it, you can request a copy from your dealer or download it from www.edilkamin.com

Readers of this manual

This manual is addressed to:

- those who will use the product at home ("USER");
- the technician who will install the product ("INSTALLER").

The target person of each page is indicated in a band at the bottom of the page (USER or INSTALLER).

General information

After unpacking the product, check the condition and completeness of the contents.
If you find any anomalies, immediately contact the retailer where the purchase was made, providing them with a copy of the warranty certificate and the sales receipt.
The appliance must be correctly sized, installed, maintained and operated in compliance with local and national law and with European regulations. For the installation process, and for anything not specifically indicated in the manual, the local regulations apply.
The diagrams provided in this manual are for illustration purposes only: they do not always strictly refer to your specific model, and are not binding in any way.

MEANING OF SYMBOLS
In some parts of the manual the following symbols are used:

PLEASE NOTE:
carefully read and understand the message in question, since failure to follow the instructions in it could cause serious damage to the product and put the safety of those using it at risk.

INFORMATION:
failure to comply with these requirements will compromise product use.

OPERATING SEQUENCE:
follow the instructions for the operations described.

Identification of the product and warranty.

The product is uniquely identified by a number, its serial number (counterfoil) which can be found on:
- the warranty certificate;
- the CE plate.

Please keep:

- the warranty certificate accompanying the product;
- the purchase receipt given to you by the retailer;
- the declaration of conformity (or the documents required in the country of installation) issued to you by the installer.

The warranty conditions are given in the warranty certificate accompanying the product and on the website www.edilkamin.com.

CE marking

The product's CE marking plate is located on the back.

- The product is not designed for use by people, including children, with limited physical, sensory and mental abilities.
- The appliance is not designed for cooking purposes.
- The appliance is designed to burn wood pellets from category A1 in the UNI EN ISO 17225-2 standard, in the amounts and manner described in this manual.
- The appliance is designed for indoor use and in areas with normal humidity conditions.
- Keep the product in a dry place out of the weather.
- For the legal and company warranties, refer to the warranty certificate inside the product: specifically, neither Edilkamin nor the retailer are liable for damage resulting from incorrect installation or maintenance.

Safety risks may be caused by:

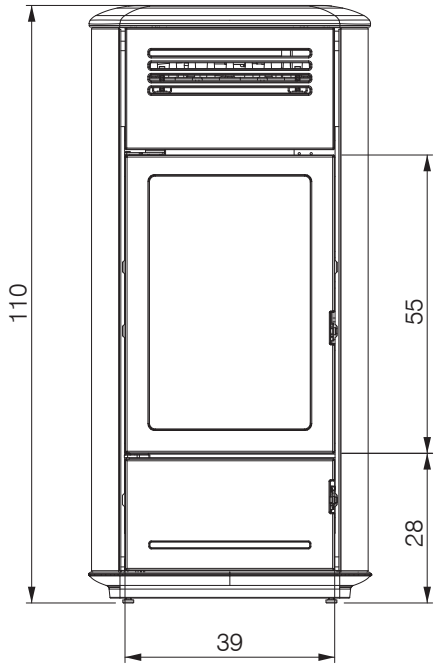
- installation in non-suitable settings, in particular those that are subject to fire risks. DO NOT INSTALL THE PRODUCT IN AREAS SUBJECT TO THE RISK OF FIRE.
- contact with fire and hot parts (e.g. glass panel and pipes). DO NOT TOUCH HOT PARTS and, when the stove is switched off and still hot, always wear the glove supplied.
- contact with live electrical equipment (internal). DO NOT ACCESS THE INTERNAL ELECTRICAL EQUIPMENT WHILE THE APPLIANCE IS POWERED ON. Electrocution hazard.
- use of improper ignition aids (e.g. alcohol). DO NOT IGNITE OR BOOST THE FLAME WITH FLUID SPRAYS OR A FLAME TORCH. Serious risk of burns, damage and injury.
- use of fuel other than wood pellets. DO NOT BURN WASTE MATTER, PLASTIC OR OTHER MATERIALS THAN WOOD PELLETS IN THE COMBUSTION CHAMBER. The product may become soiled, the flue may catch fire, and environmental damage may ensue.
- cleaning the combustion chamber when hot. DO NOT CLEAN THE HEARTH WITH A VACUUM CLEANER WHILE IT IS HOT. You could damage the vacuum-cleaner and risk the emission of smoke in the room.

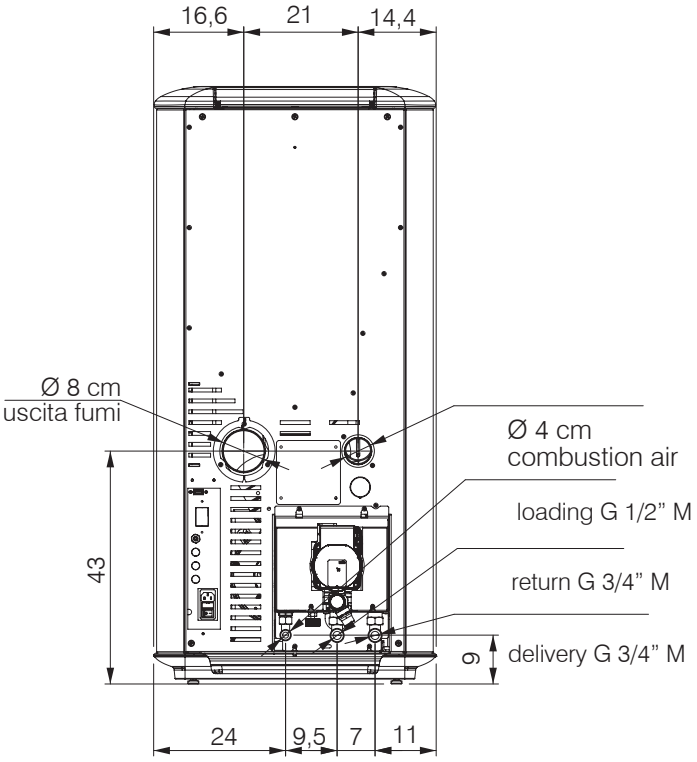
- cleaning the smoke duct with cleaning products. DO NOT CLEAN THE PRODUCT WITH FLAMMABLE PRODUCTS. Risk of fire or blowback.
- cleaning the glass pane while hot or with unsuitable cleaning products. DO NOT CLEAN HOT GLASS WITH WATER. ONLY USE RECOMMENDED GLASS CLEANING PRODUCTS. Risk of cracking and permanent, irreparable damage to the glass.
- the storage of flammable materials at a distance which is less than the safe distances listed in this manual. DO NOT PLACE LAUNDRY ON THE APPLIANCE. DO NOT PLACE DRYING RACKS WITHIN THE SAFETY CLEARANCE. Keep flammable fluids away from the appliance. Fire hazard.
- blocking the aeration vents and air intakes in the room. DO NOT BLOCK THE AERATION VENTS OR FLUE. Risk of smoke returning into the room with consequent damage and injury.
-
- use of the product as a support or ladder. DO NOT CLIMB ONTO THE PRODUCT OR USE IT AS A SUPPORT. Risk of damage and injury.
- use of the stove with the combustion chamber open. DO NOT USE THE PRODUCT WITH ITS DOOR OPEN.
- incandescent material projected from the open door. DO NOT throw incandescent material outside the appliance. Fire hazard.
- use of water in case of fire. CALL THE AUTHORITIES if a fire breaks out.
- never operate the product without water in the circuit.
- running it dry can damage it.

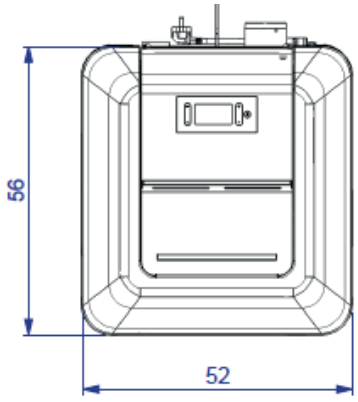
If you have doubts, please do not take any action, but contact the retailer or the installer.

For reasons of safety, read the user instructions included in this manual.

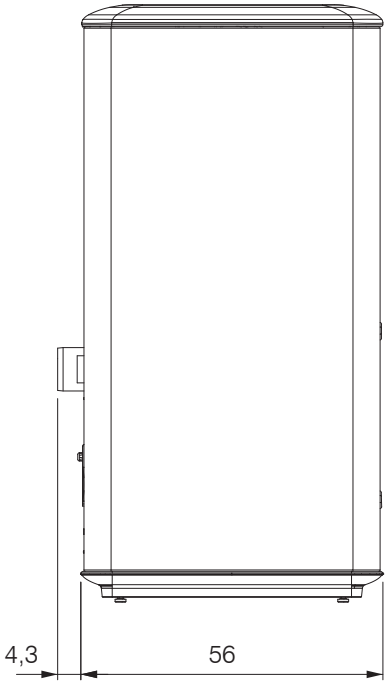
MILLA H 12 *up* - MILLA H 15 *up* (cm)

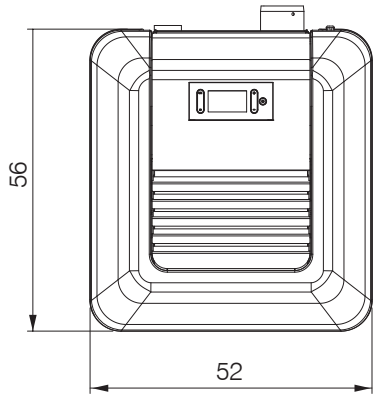






MILLA H 12 *up*





MILLA H 15 *up* (cm)

TECHNICAL DATA as per EN 14785			
	MILLA H 12 *up*		
	Nominal power	Reduced power	
Available power	12,4	3,3	kW
Heat output to water	10,2	2,5	kW
Efficiency	93,0	93,2	%
CO emissions at 13% O_2	0,004	0,009	%
Smoke temperature	113	65	°C
Fuel consumption *	2,8	0,7	kg/h
Tank capacity	24		kg
Recommended draught	12		Pa
Autonomy	9	34	ore
Water content	13		l
Maximum operating pressure	3		bar
Maximum operating temperature	90		°C
Heatable volume **	325	--	m^3
Smoke outlet diameter	80		mm
Air intake diameter	50		mm
Weight with packaging	189		kg
Energy efficiency classes (2015-1186/1187 Regulation)	A++		

* A calorific value of 4.8 kW/Kg has been used to calculate consumption

** The heatable volume is calculated based on the assumption of a heating demand of 33 Kcal/m^3 hour.

TECHNICAL DATA FOR SIZING THE FLUE which must in any case satisfy the requirements in this sheet and the installation instructions for the product		
	Nominal power	
	MILLA H 12 *up*	
Fumes temperature at smoke outlet	136	°C
Minimum draw	0,01	Pa
Fumes flow rate	8,3	g/s

ELECTRICAL SPECIFICATIONS	
Power supply	230 Vac +/- 10% 50 Hz
Power absorbed in nominal power	70 W
Power absorbed in reduced power	39 W
Power absorbed in stand by	4 W
Power absorption during ignition	300 W
Protection rating	Fusibile 4 AT, 250 Vac 5x20

EDILKAMIN
TECNOLOGIA DEL FUOCO

Edilkamin S.p.A.
20045 Lainate (MI), via P. Mascagni 7
Tel. +39 02 937621
Fax +39 02 93762 400/300
mail@edilkamin.com
www.edilkamin.com

Capitale € 4.100.000 int. vers.
Sede legale:
20154 Milano, Via P. Moscati 8
Reg. Imp. di Milano 00192220192
REA n° 878888
Cod. Fiscale e Partita IVA 00192220192

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

Manufacturer	**Edilkamin S.p.A.**
Trademak	**Edilkamin**
Model Identifier	**Milla H 12**
Description	Mechanically space heater with boiler fired by wood pellets
Indirect heating functionality	**no**
Direct heat output (space heat output)	**12,4 kW**
CPR harmonised standard	**EN 14785**
Notified Body	**Acteco srl (Via Amman 41 ,33084 Cordenons-PN-Italy) NB1880**

Fuel	**Preferred fuel (unique)**	**Space heating emissions at nominal heat output**				**Space heating emissions at minimum heat output** Only required if correction factors F(2) or F(3) are applied.			
		(*) PM = particulate matter, OGCs = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides							
		PM	OGC	CO	NOx	PM	OGC	CO	NOx
		mg/m3 at 13%O2				mg/m3 at 13%O2			
Compressed wood with moisture content < 12 %	***yes***	**12**	**8**	**44**	**147**	**9**	**25**	**116**	**148**

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

Up to 1/1/2022	
η_s [%]	**89,0**
EEI [%]	**131**
Energy Efficiency Class	**A++**

From 01/01/2022	
η_s [%]	**89,0**
EEI [%]	**131**
Energy Efficiency Class	**A++**

Calculations according to the council commission regulation (EU) 2015/1186 and 2015/1185
Characteristics when operating with the preferred fuel

$$EEI = (\eta_{s,on} \cdot BLF) - 10\,\% + F(2) + F(3) - F(4) - F(5)$$

BLF =1,45

$$\eta_{s,on} = \eta_{th,nom}$$

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

F5 not of relevance

Heat output			
Item	Symbol	Value	Unit
Nominal heat output	P_{nom}	**12,4**	kW
Minimum heat output (indicative)	P_{min}	**3,3**	kW

Useful efficiency (NCV as received)			
Item	Symbol	Value	Unit
Useful efficiency at nominal heat output	$\eta_{th,nom}$	**93,0**	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	**93,2**	%

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	el_{max}	**0,070**	kW
At minimum heat output	el_{min}	**0,039**	kW
In standby mode	el_{sb}	**0,004**	kW

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

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

F (2) **7,0** % up to 2022

F (2) **7,0** % from 2022

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

F (3) **1,0** % up to 2022

F (3) **1,0** % from 2022

Contact details

Name and address of the manufacturer
EDILKAMIN S.p.A.
Via Mascagni 7
20045 Lainate (MI) – ITALY

www.edilkamin.com
mail@edilkamin.com
Legal Representative
Paolo Gusella

TECHNICAL DATA as per EN 14785			
	MILLA H 15 *up*		
	Nominal power	Reduced power	
Available power	15,3	3,3	kW
Heat output to water	13	2,5	kW
Efficiency	92,1	93,2	%
CO emissions at 13% O_2	0,004	0,009	%
Smoke temperature	132	65	°C
Fuel consumption	3,5	0,7	kg/h
Tank capacity	24		kg
Recommended draught	12		Pa
Autonomy	7	34	ore
Water content	13		l
Maximum operating pressure	3		bar
Maximum operating temperature	90		°C
Heatable volume *	400		m^3
Smoke outlet diameter	80		mm
Air intake diameter	50		mm
Weight with packaging	189		kg
Energy efficiency classes (2015-1186/1187 Regulation)	A++		

* A calorific value of 4.8 kW/Kg has been used to calculate consumption

** The heatable volume is calculated based on the assumption of a heating demand of 33 Kcal/m^3 hour.

TECHNICAL DATA FOR SIZING THE FLUE which must in any case satisfy the requirements in this sheet and the installation instructions for the product		
	Nominal power	
	MILLA H 15 *up*	
Fumes temperature at smoke outlet	158	°C
Minimum draw	0,01	Pa
Fumes flow rate	9,8	g/s

ELECTRICAL SPECIFICATIONS	
Power supply	230 Vac +/- 10% 50 Hz
Power absorbed in stand by	77 - 39 - 4 W
Power absorption during ignition	300 W
Protection rating	Fusibile 4 AT, 250 Vac 5x20

EDILKAMIN TECNOLOGIA DEL FUOCO

Edilkamin S.p.A.
20045 Lainate (MI), via P. Mascagni 7
Tel. +39 02 937621
Fax +39 02 93762 400/300
mail@edilkamin.com
www.edilkamin.com

Capitale € 4.100.000 int. vers.
Sede legale:
20154 Milano, Via P. Moscati 8
Reg. Imp. di Milano 00192220192
REA n° 878888
Cod. Fiscale e Partita IVA 00192220192

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

Manufacturer	**Edilkamin S.p.A.**
Trademak	**Edilkamin**
Model Identifier	**Milla H 15**
Description	Mechanically space heater with boiler fired by wood pellets
Indirect heating functionality	**yes**
Direct heat output (space heat output)	**2,3 kW**
Indirect heat output (space heat output)	**13 kW**
CPR harmonised standard	**EN 14785**
Notified Body	**Acteco srl (Via Amman 41 ,33084 Cordenons-PN-Italy) NB1880**

Fuel	Preferred fuel (unique)	Space heating emissions at nominal heat output				Space heating emissions at minimum heat output Only required if correction factors F(2) or F(3) are applied.			
		(*) PM = particulate matter, OGCs = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides							
		PM	OGC	CO	NOx	PM	OGC	CO	NOx
		mg/m3 at 13%O2				mg/m3 at 13%O2			
Compressed wood with moisture content < 12 %	***yes***	**13**	**5**	**55**	**147**	**9**	**25**	**116**	**148**

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

Up to 1/1/2022	
η_s [%]	**88,3**
EEI [%]	**130**
Energy Efficiency Class	**A++**

From 01/01/2022	
η_s [%]	**88,3**
EEI [%]	**130**
Energy Efficiency Class	**A++**

Calculations according to the council commission regulation (EU) 2015/1186 and 2015/1185
Characteristics when operating with the preferred fuel

$$EEI = (\eta_{s,on} \cdot BLF) - 10\,\% + F(2) + F(3) - F(4) - F(5)$$

BLF =1,45

$$\eta_{S,on} = \eta_{th,nom}$$

$$\eta_S = \eta_{S,on} - 10\% + F(2) + F(3) - F(4) - F(5)$$

F5 not of relevance

Heat output			
Item	Symbol	Value	Unit
Nominal heat output	P_{nom}	**15,3**	kW
Minimum heat output (indicative)	P_{min}	**3,3**	kW

Useful efficiency (NCV as received)			
Item	Symbol	Value	Unit
Useful efficiency at nominal heat output	$\eta_{th,nom}$	**92,1**	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	**93,2**	%

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	el_{max}	**0,077**	kW
At minimum heat output	el_{min}	**0,039**	kW
In standby mode	el_{sb}	**0,002**	kW

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

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

F (2) **7,0** % up to 2022

F (2) **7,0** % from 2022

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

F (3) **1,0** % up to 2022

F (3) **1,0** % from 2022

Contact details

Name and address of the manufacturer
EDILKAMIN S.p.A.
Via Mascagni 7
20045 Lainate (MI) – ITALY

www.edilkamin.com
mail@edilkamin.com
Legal Representative
Paolo Gusella

PREPARATION AND UNPACKING

The packaging materials are neither toxic nor noxious and do not require special disposal.
The user is responsible for storing, disposing of and recycling them in a regulatory fashion.

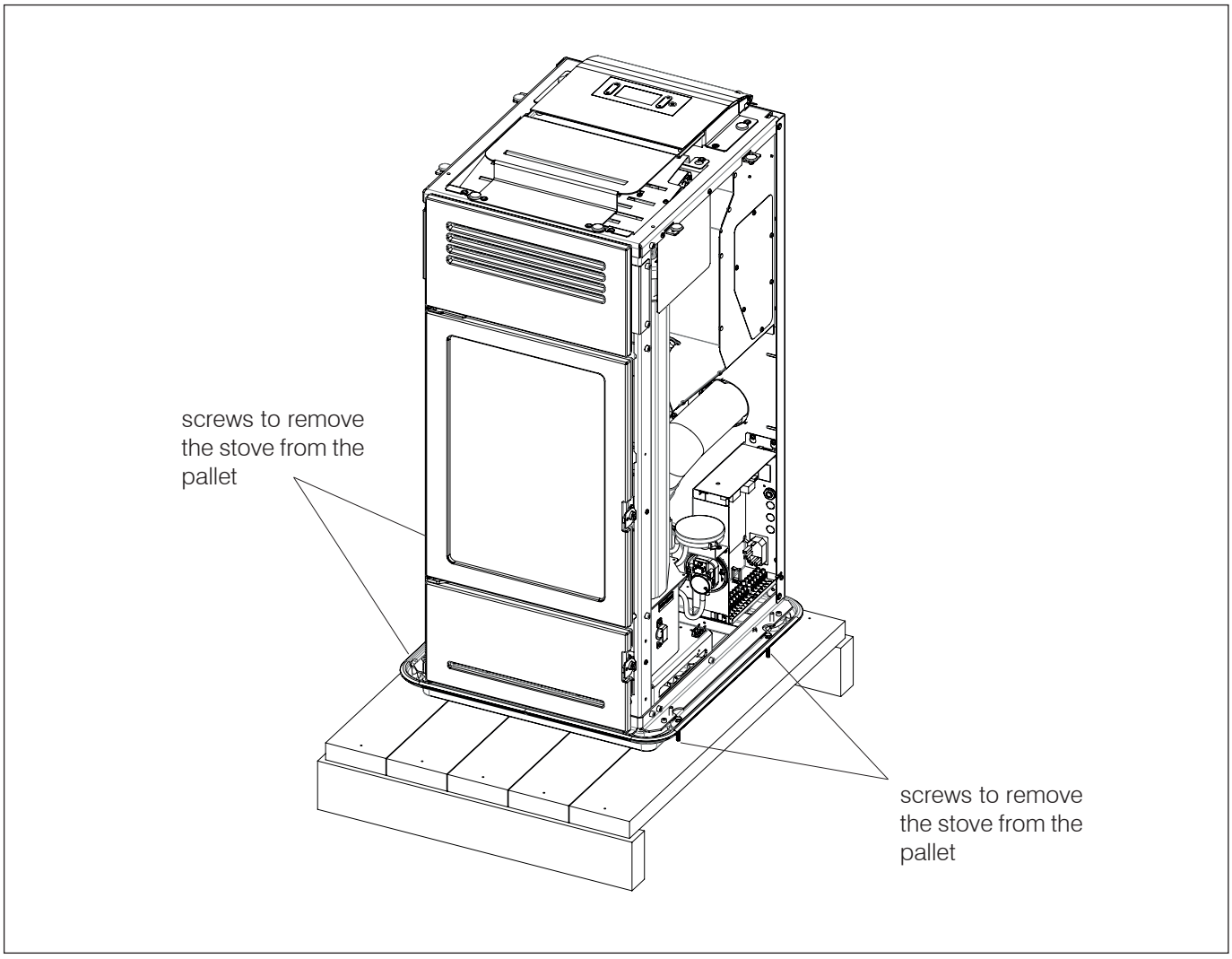
Always move the stove vertically with suitable equipment and in compliance with safety regulations.
Do not turn the package over, and handle all parts requiring installation with care.

Package materials such as plastic andfilms my be dangerous for children.
Suffocation hazard. Keep packages away from children.

DO NOT TRY TO REMOVE THE PRODUCT FROM THE PALLET WITHOUT HAVING OPENED THE COMBUSTION CHAMBER DOOR AND UNDONE THE SCREWS WHICH FIX IT TO THE PALLET

TO REMOVE THE STOVE FROM THE PALLET

Loosen the screws that secure the product to the pallet.



THE DRAWINGS ARE FOR GUIDANCE ONLY, USEFUL FOR THE INSTALLATION, BUT THEY MAY NOT REFER TO THE SPECIFIC MODEL.

PLUMBING CONNECTION

The plumbing connection depends on the type of system.
However, there are some "common rules":

- The plumbing connection must be carried out by qualified personnel who can issue documentation declaring correct installation conforming to current law in each country (for example, in Italy according to Ministerial Decree 37/2008 and standard UNI 10412-2)
- The plumbing system must operate at a pressure between 1 and 1.5-2 bar on a hot closed-vessel circuit.
- Note: DO NOT install the stove in place of, for example, a thermocooker installed with an open vessel without an adequate expansion system making it a closed vessel.
- The separation of the primary from the secondary circuit is ideal and, in some countries, it is also mandatory in case of the installation of a heating plant (for example, in Italy, the reference is the Circular from ISPESL, now INAIL, of April 2011). This separation is easily carried out using KIT A2 from Edilkamin.
- The presence of a puffer (inertial storage tank) is recommended but not mandatory. Its presence has the advantage of freeing the stove from "sudden" demands from the heating system and allowing the integration of other heat sources. It reduces consumption and increases the efficiency of the system.
- The hot water exiting from the output of the stove must be "directed" differently depending on the objective (heating, radiators, exchanger, whether or not there is a puffer, etc.)
- • The material used in the circuit must be suitable to withstand any overheating.
- The discharge of the safety valve must be accessible and visible. The discharge water must be channelled into a vertical pipe using a funnel with backflow air intakes, appropriately spaced from the discharge point. The conveying pipe must have the following characteristics:
- Must not originate more than 50 cm from the discharge of the valve and must be positioned in the same room where the KIT
- Verify that the hydraulic system is correctly installed and is equipped with an expansion tank that is sufficiently large to guarantee safety. The presence of a tank within the boiler-stove does NOT guarantee appropriate protection from thermal expansion occurring in the whole system.
- Therefore the installer must assess whether an additional expansion tank is needed, depending on the type of system installed.

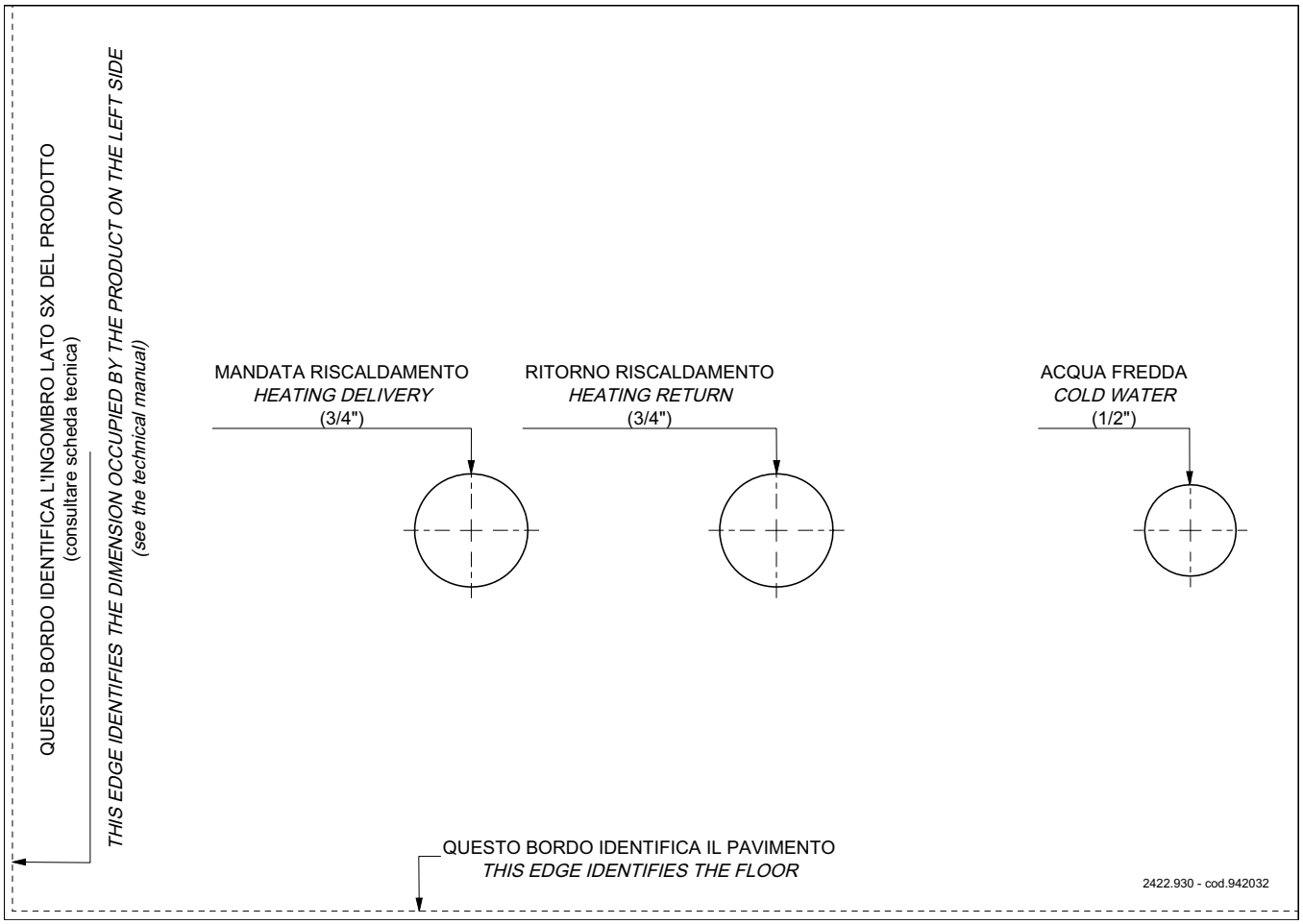
Fill the system using the filling tap (it is recommended not to exceed a pressure of 1,5 bar).
When filling, 'bleed' the pump and the relief tap.

PRESSURE GAUGE

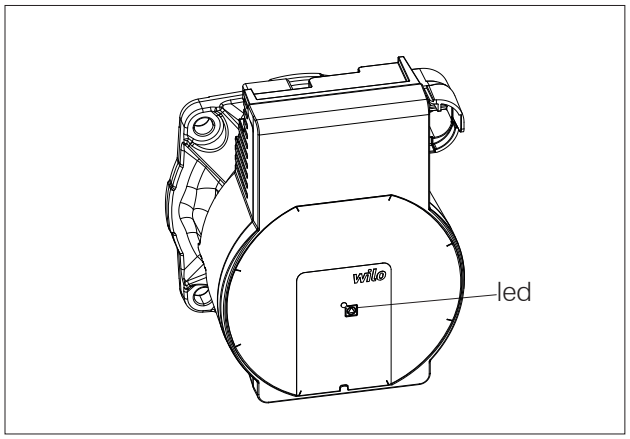
Milla H 12 *up* and Milla H 15 *up* has provided with an electronic reading system for water pressure. Therefore, there is no analogue pressure gauge. Water pressure is shown on the display, on the bottom l

The pellet boiler stove is equipped with:
- Hydraulic kit with closed expansion tank,
- circulator pump
- pressure relief valve.

PIPE KIT Measurements in mm



PUMP SPECIFICATIONS

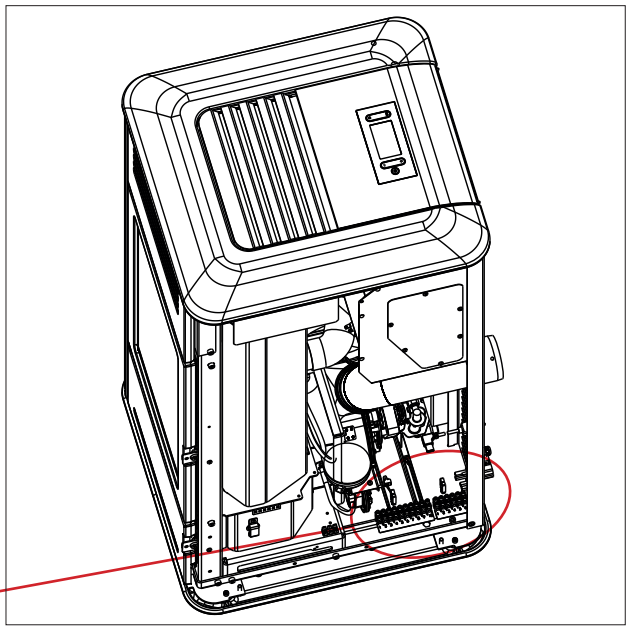


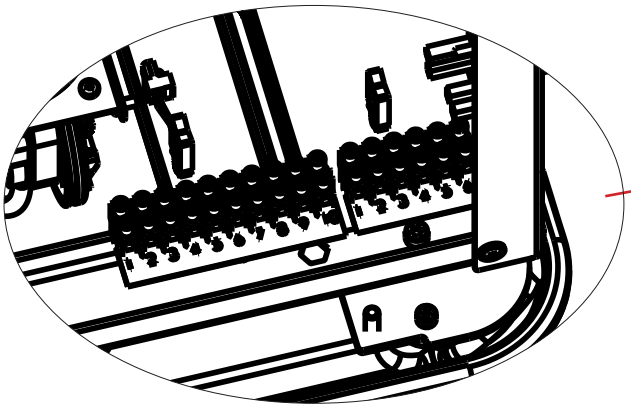
The pump has no adjustment devices.
Adjustments are made via the micro
processor on the boiler stove: “begin” at the lowest speed and make adjustments based on the progression of the water temperature. Below is the descriptions for the LED signals.

LEDS	MEANING	CAUSE	SOLUTION
Steady green	Pump running	Normal operation	
Flashing green light	Pump in stand-by mode	Normal operation	
Steady red LED	Stall	Pump stalled	Contact the TAC
	Contact/winding	Defective winding	
Flashing red LED	Under-/over-voltage	Supply voltage too low/high	Check the supply voltage/contact the TAC
	Excessively high module temperature	Motor board temperature too high	
Flashing red/green light	Turbine-based operation	The pump is not powered but the hydraulic system is fed by other sources	Check the network voltage/ water pressure and environmental conditions/contact the TAC
	Dry operation	Air in the pump	
	Overload	The motor runs with difficulty	

TERMINAL BOARD

One terminal board (10 poles) is low voltage and the other (6 poles) is high voltage. You can find some connection examples below.





Poles are identified with a number on the product as described below

Low voltage terminal board

N° POLES	POSSIBLE CONNECTIONS	NOTES
1/2	Ntc analogue input	e.g. for a second probe for accumulator tank or boiler for domestic hot water or for an external probe for climatic curve
3/4	NTC probe/accumulator tank thermostat	
5/6	NTC probe/room thermostat	the room probe is supplied already wired as standard
7/8	Home Automation Input. This is an input which receives all home automation contacts	A telephone dialler, for example
9/10	Probe for domestic hot water boiler	

High voltage terminal board

N° POLES	POSSIBLE CONNECTIONS	NOTES
1/2/3	Electrical connection for booster/secondary pump (Earth, Neutral/Phase)	
4/5/6	EXTERNAL SOLENOID VALVE (Common, Normally Closed, Normally Open) 4 = Common 5 = Normally Closed 6 = Normally Open	During First Ignition, the technician can set up, into parameters, the connection setting on points 4 and 5, of an external boiler contact or remore alarm.

REMARKS ON INSTALLATION

Note that:

• installation must be carried out by authorised technical personnel;

• The appliance must be installed and operated in compliance with local and national law and European regulations. The applicable Italian standard is UNI 10683;

• If installed in a condominium, the appliance must be approved by the administrator.

We give some general instructions below, however these do not obviate the need to comply with local regulations and do not imply any liability as regards the installer's work.

Checking the suitability of the installation space

- The room must have a volume of at least 15 m3.
- The floor must be able to bear the weight of the product and its accessories.
- Level the product (the product is provided with adjustable feet).
- The appliance may not be installed in a bedroom, bathroom or in the same room as other equipment which draws air for combustion from the room itself, or in any area with an explosive atmosphere.
- Any extraction fans operating in the same room or area as the product, may affect its draw.
- In Italy, check the compatibility pursuant to UNI 10683 and UNI 7129 in the presence of gas fired products.

ADJUSTABLE FEET

The boiler stoves (Milla H 12 *up* -Milla H 15 *up*) are provided with adjustable feet for better positioning on the floor. The feet are adjustable in height using a screwdriver at the top of the foot and can slightly raise the boiler stove.

Protection from heat and safety clearances

The surfaces of the building that are adjacent to the product must be protected against overheating.

The insulation to be used will depend on the type of surface in question.

The appliance must be installed in accordance with the following safety instructions:

- no flammable materials may be kept closer than 15 cm to the sides and back
- no flammable materials may be kept within 80 cm from the front of the appliance.

If connected to a wooden or otherwise flammable wall, the flue must be insulated appropriately.

If installed on a flammable or combustible floor, or which is not capable of bearing its load, use steel or glass plates under the stove to distribute the load.

Information on positioning the product

The product is designed to operate in all climatic conditions. In special circumstances, such as strong wind, its safety equipment may switch the appliance off.

Contact the authorised Edilkamin Technical Assistance Centre.

NOTE

The smoke outlet diameter does not match the chimney system diameter. The chimney system must be sized in accordance with the national and local regulations.

In particular (this is not an exhaustive list), refer to the EN 13384, EN 1443, EN 1856, EN 1457 standards and to all local regulations.

FLUE SYSTEM(SMOKE DUCT, FLUE AND CHIMNEY POT)

This chapter has been drawn up pursuant to European standards EN 13384, EN 1443, EN 1856 and EN 1457. The installer must observe both these and any other local regulations.
This manual does not in any way substitute such regulations.
The product must be connected to a flue system which ensures that the smoke produced by combustion is discharged in complete safety.

Before positioning the appliance, the installer must check that the flue is suitable.

SMOKE DUCT, FLUE

The smoke duct (which connects the smoke outlet of the combustion chamber with the flue) and the flue itself must, among other regulatory requirements:

• receive the smoke from a single product (outlets from multiple appliances may not be conveyed into a single flue)

- be routed vertically for the most part
- have no downwards sloping sections
- preferably have a circular internal cross section, or with a ratio of the sides of less than 1.5
- terminate at roof level with a proper chimney pot: the flue may not discharge directly onto the wall or into an enclosed space, even if the space in question is open to the sky
- be made of material with rated fire reaction class A1 as per UNI EN 13501 or analogous national regulations
- be certified, with a chimney plate if metal
- be of uniform cross section or vary in cross section only immediately after the outlet, not at some mid point of its length

THE SMOKE DUCT

Further to the general prescriptions for the smoke duct and flue, the smoke duct:

- may not be made of flexible metal material
- must be insulated, if routed through unheated areas or outdoors
- must not be routed through rooms where the installation of combustion heat generators is prohibited, where there is risk of fire, or which cannot be inspected
- must enable the recovery of soot and be open for inspection
- must have at most 3 bends with a maximum angle of 90°
- if there is a horizontal section, it must be a single one with a maximum length of no more than 3 metres, depending on the draw. Note, in any case, that long sections promote the accumulation of dirt and are harder to keep clean.

Avoid infiltration of condensate water through the flue. If necessary, mount an anti-condensate ring – ask your chimney sweeper for details.
Damage caused by condensate water is not covered by the warranty.

*
In some nations, installations with multiple flues are permitted under certain conditions. Depending on regional regulations, additional safety systems are necessary in case of connection to multiple flues. Your chimney sweeper/technician will be able to provide further details.

THE FLUE:
Further to the general prescriptions, the flue must
- only be used to discharge smoke
- be correctly sized to satisfy the requirements of smoke discharge (EN 13384-1)
- must preferably be insulated, in steel with a circular internal section. If rectangular, the corners must have a radius of not less than 20 mm, with a ratio of the internal dimensions of <1.5
- must normally be at least 1.5 metres in vertical length
- must have a constant cross section
- must be waterproof and thermally insulated to ensure a good draw
- must preferable have a collection chamber for non-combusted matter and condensation.
- if pre-existing, it must be cleaned to prevent any fire hazard
- in general, we recommend fitting a tube inside the existing masonry chimney if its diameter is greater than 150 mm. This recommendation is purely for guidance; the installer must assess wile installing, after the calculation of the draw.

INTUBATED SYSTEM:
Further to the general prescriptions, the intubated system must:
- operate in negative pressure
- be open to inspection
- be compliant with local regulations.

THE CHIMNEY POT must:
- be wind-proof
- have an internal cross section equivalent to that of the flue and a smoke outlet at least double that of the interior of the flue
- extend beyond the back flow zone (in Italy, refer to UNI 10683 point 6.5.8.)
- allow for maintenance of the chimney.

For dual flues (which should be spaced at least 2 m apart), the chimney pot receiving the smoke from the solid fuel appliance or that from the higher storey, must be at least 50 cm higher than the other

AIR INTAKE FOR COMBUSTION
In general, we suggest two ways to ensure a proper flow of combustion air. Air must come from the outside* It is also important to ensure a change of heating air and glass cleaning air etc.

Indirect air intake
The boiler stove takes air from the outside through the hole on the rear.
Install an air outlet at floor level with an effective surface area (net of the mesh or other protections) of at least 80 cm^2 (10 cm in diameter).
To prevent draughts, we recommend installing the intake behind the product or behind a radiator. Installing it in front of the appliance will create unpleasant draughts.

Direct air intake**
Install an air intake of effective area (net of the mesh or other protective equipment) at least equal to that of the air intake at the back of the product.
Connect the air intake to the appliance's air intake with a tube (which may also be of the hose type). Increase the diameter of the pipe if it is not smooth: assess its pressure drops.
We recommend not exceeding a length of 3 m, considering the draw of the flue. For each curve, up to a maximum of two, the length must be reduced by 1 m. You should also consider increasing the diameter of the pipe.

*The air may be drawn from an adjacent room only if:
- the flow is taken from permanent and unobstructed openings communicating with the outdoors
- the air pressure in the adjacent room is never lower than that of the outdoor pressure
- the adjacent room is not a garage. subject to fire hazard, a bathroom or bedroom
- the adjacent room is not a shared room in the condominium.

In Italy, UNI 10683 provides that ventilation is sufficient even if a pressure difference between the outdoors and indoors of no more than 4 PA is guaranteed (UNI EN 13384-1). The installer who issues the declaration of conformity is responsible for ensuring these conditions.

**The direct connection of the air intake does not make the product airtight. It is therefore necessary also to ensure recovery of the air taken in the room by the product (i.e. for the glass cleaning)

CHECKING THE ELECTRICAL CONNECTIONS (the power socket must be located in an easily-accessible position)

The product is supplied with an electrical power cord for connection to a 230V 50 Hz socket, preferably one equipped with a trip switch.
Variations in voltage of more than 10% can compromise its operation.
The electrical system must be compliant; check the operation of the earth in particular.
Edilkamin is not responsible for malfunctions resulting from an improperly earthed system.
The power line must be of adequate section for the power of the appliance.
The power cable must not come into contact with the flue or other hot parts of the stove.
Power up the product by setting its switch from 0 to 1.
There is one 4 A fuse on the socket with switch located at the rear of the product.

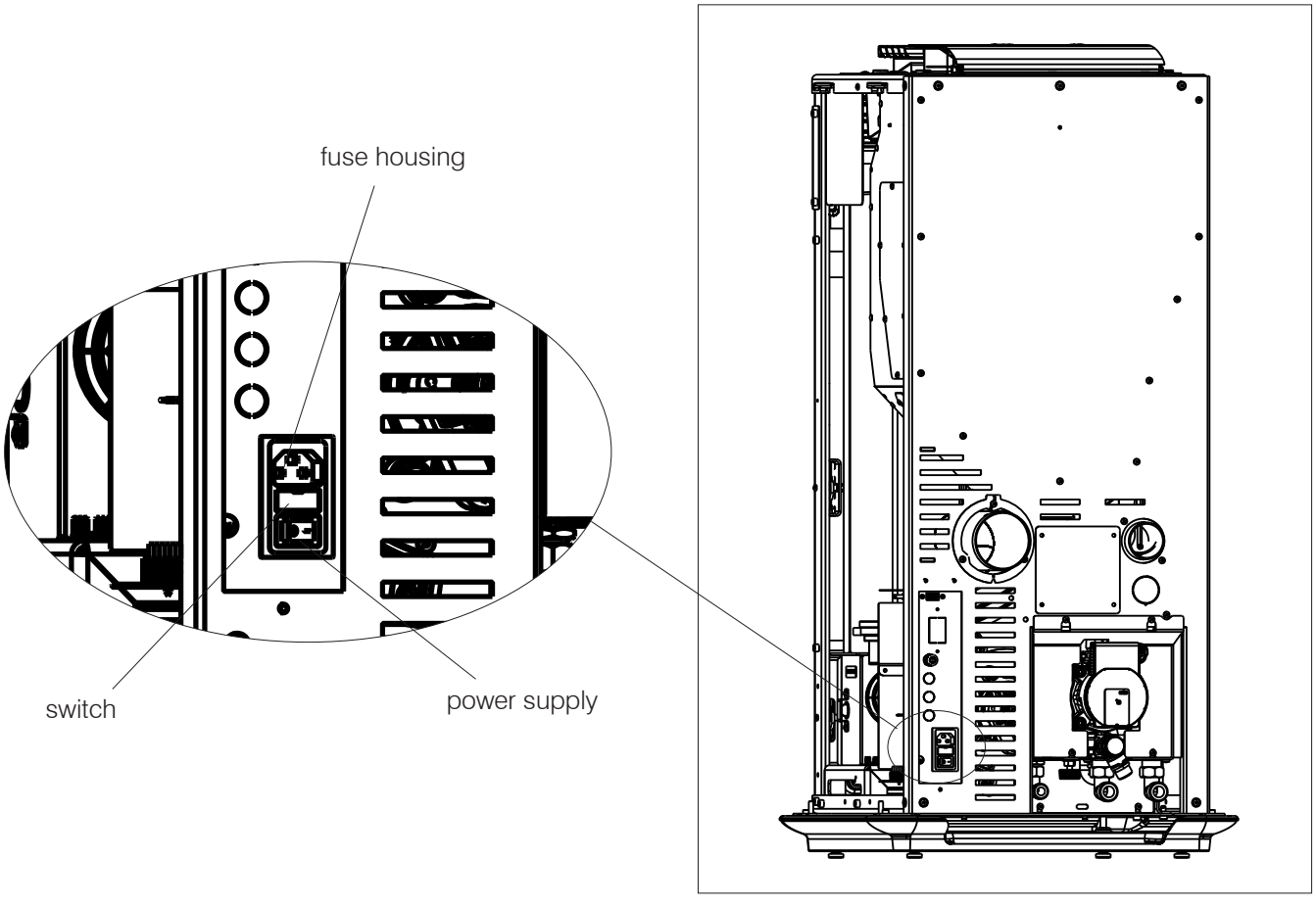
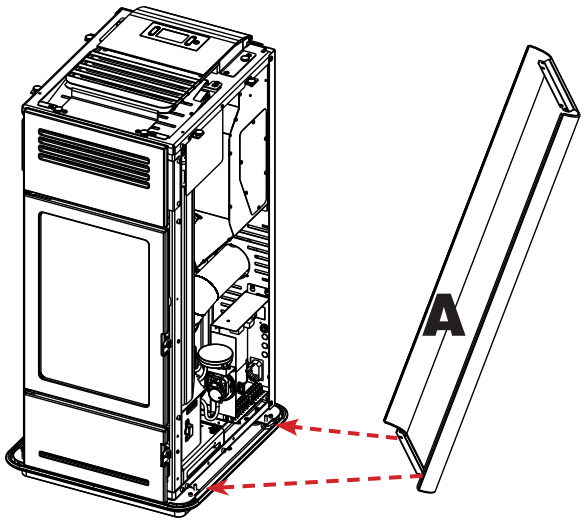


Fig. 1
- Put the side (A) in this position
- Use the screws to fix it
- repeat for the other side

Then, put the top.

fig. 1



FIRST IGNITION (COMMISSIONING) PHASES

- Make sure you have read and understood this manual.
- Remove all flammable materials from the appliance (manuals, labels, etc.). In particular remove any labels from the glass.
- Make sure that the technician performs the first ignition and the first loading of the pellet tank. Refer to the “Various Menus” chapter, paragraph “pellet loading”.

On first ignition, there may be a slight smell of paint, which will disappear in a short time.

FUEL

Use UNI EN ISO 17225-2 category A1 wood pellets or similar regulatory products with the following characteristics.
diameter 6 mm
length 3-4 cm
humidity <10 %
For reasons of safety and environmental compatibility, DO NOT burn plastic, painted wood, coal, bark or other such materials in the stove.
Do not use the stove as an incinerator.

Caution
Using fuels other than those specified can damage the appliance

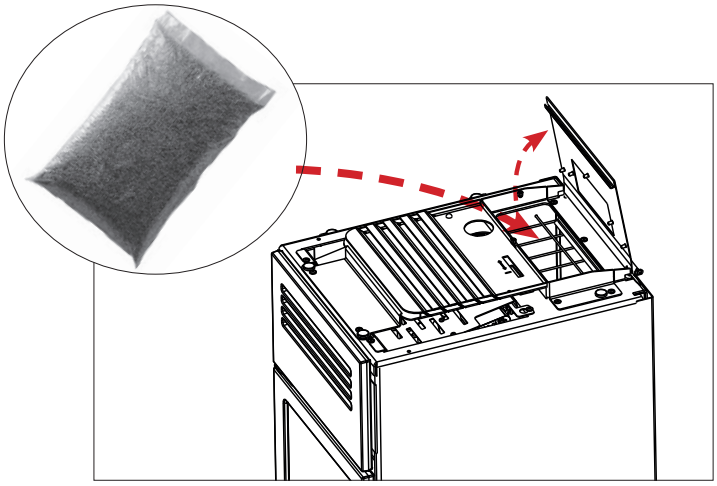
VENT

During normal operations the vent is automatic. The need for a manual vent for the system can only be assessed by the technician during commissioning.

LOADING THE PELLETS INTO THE TANK.

To access the tank, open the lid.

When the boiler stove is hot, DO NOT MAKE CONTACT between the pellet bag and the top grille.
Use the gloves when loading the stove while it is operating and hence hot to the touch.
Make sure not to touch the smoke discharge pipe if hot.



OPERATION

Mode	Settable parameters
AUTOMATIC	• desired room temperature • ventilation level *
CRONO	• desired room temperature, selected per day of the week • ventilation level*

The product also has the following supplementary functions.

Function	Modes in which it can be activated	What it does
Stand-By	automatic crono	when the desired temperature is reached, the product switches off and then back on again when the temperature drops

THE MIND

INTERFACE

The product can be managed alternatively as follows

STANDARD

- **DISPLAY**: useful for all functions, located on the product
- **The Mind** APP THE MIND: useful for all functions at home with direct connection or outside the home with internet connection and registration

By purchasing the Edilkamin **optional elements**:

- **VOICE CONTROL SYSTEMS:** Alexa or Google Home

OPTIONAL ELECTRICAL CONNECTIONS

A terminal board is present on the product (accessible by removing the covering, with electricity off and only by qualified technicians).

DEPENDING ON THE TYPE OF SYSTEM, THE INSTALLER CAN CONNECT PROBES OR THERMOSTATS FOR THE ADJUSTMENT OF THE PRODUCT ACCORDING TO DIFFERENT SIZES.

In case of connection of probes or thermostats on the room inputs, the relevant parameters must be set in the Technical Menu of the appliance.

We recommend, at the end of installation and commissioning, to check all the daily operations and useful documents with the technician.

NOTE:

The connections must be made by qualified personnel, with the electricity disconnected.

More info for installers on the site.

The displays follow the functions at the same time and are described in the following paragraphs:

- BUTTONS

The display has 8 buttons:

ON/OFF: to go from the OFF status to the ON status. In the Menus, to confirm and return to the main screen.

+/-: to increase/decrease the set values or scroll the menu items

M: to access the Menu or to exit the Menu items without saving

OK: to confirm an operation (2 seconds) or to access a menu item

<>: to adjust the ventilation and move through the menus

Energy saving of the display

After 1' of inactivity of the display, the backlight turns off
After 3' of inactivity, the display turns off
To reactivate it, press any button

When first switched on, if the language was not set, the screen on the side for setting the language appears.
Choose the language with the +/- buttons and confirm with OK.

Choose the language with the buttons + and - select it with button OK

From the display it is possible to:

• Switch from OFF to ON status, keeping the ON/OFF button pressed for a long time

• Set the room temperature desired, using buttons +/- (see below)

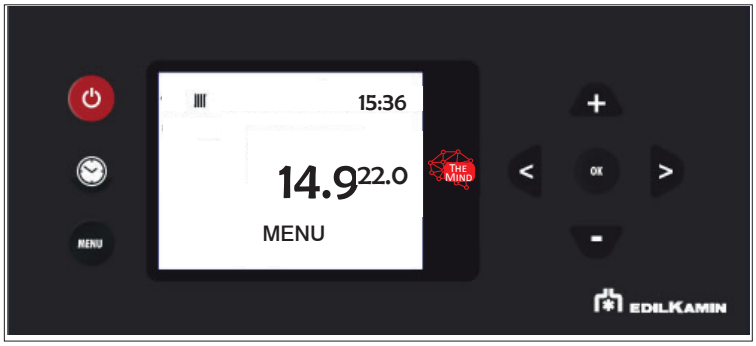
Switching on and off takes a few minutes, during which the flame must appear or go out. Let it happen without intervening. During ignition, the display shows the word “START”.

During shutdown, the display shows the word “OFF”.

- SIMPLIFIED USE after first start-up

In the default configuration, after having powered up, press the ON/OFF button on the display to “activate” the product and adjust the desired room temperature with buttons +/-. The product will turn on, turn off and adjust the power automatically to ensure the desired temperature.

Press button MENU to access the Menu screen.



- FAN ADJUSTMENT

The setting can be made with the stove turned OFF or ON.
If the backlight is switched off, it can be activated by pressing any button.

Then by pressing button < or > SET flashes and instead of environment Set, the indication of the number of fan in modification (F1) appears.

indication of the fan number

The fan speed can be increased or decreased with < or > in the following sequence:

AUTO -1 -2 - 3 - 4 - 5

The setting is confirmed with button OK.

- FAN STATUS DISPLAY

If the product has not heated up, no symbol will appear.

FAN OFF:
SPEED 1
SPEED 2
SPEED 3
SPEED 4
SPEED 5
AUTOMATIC

POSSIBLE STATUSES of the product:

- OFF STATUS

The product is “deactivated” and does not produce heat, following manual shutdown with ON/OFF of the radio control or with intervention from an external contact (crono, telephone dialler).
From the OFF screen, the ON screen can be accessed by pressing the ON/OFF button for 3 seconds.

- ON STATUS

Situation in which the product is “active” and can satisfy the heat demands.

- ALARM STATUS

In case of Alarm Block, the display shows the type of alarm. See the paragraph “Tips for possible problems”

- ON/OFF STATUS Stand-By active

Situation in which the product is momentarily turned off because it has no heat demand.

With stand-by active, in the ON status the product switches on only when there is a heat request.

If the product was working, it goes to minimum power and waits for the set time before turning off.
If the product was in the ignition phase, it completes the ignition phase, goes to minimum power and waits for the set time before switching off.
If the product was OFF and is brought to ON, the stove immediately goes into stand-by, without turning it on.

We recommend, at the end of installation and commissioning, to check all the daily operations and useful documents with the technician.

- MENU

It can be accessed by pressing the MENU button and the first Menu item will appear.

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

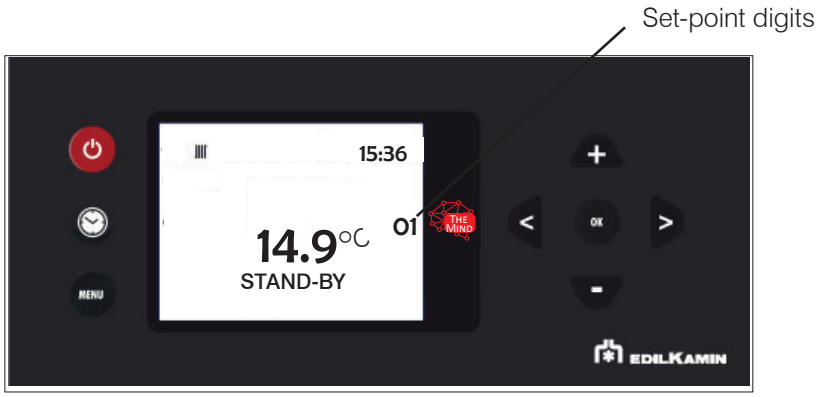
The Menu items are as follows

STAND-BY
PELLET LOAD
CRONO
TEMP. CRONO (T1-T2)
DATE-HOUR
LANGUAGE
DISPLAY
others ONLY under the guidance of technician

NOTE
Order and writing may vary slightly depending on the version

We recommend, at the end of installation and commissioning, to check all the daily operations and useful documents with the technician.

The set-point digits contain the progressive number of the menu item, while the status bar includes the description of the item



To exit the menu, press MENU

- STAND-BY

With the Stand-by function active, when the desired temperature is reached, the product switches off and switches on again when the room temperature drops below the desired one.
When the Stand-by function is not active, the product sets itself to minimum power when the temperature set-point is reached.

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the button

After entering the Stand-by function, the display will show the name of the function on the first line of the status bar and the current value on the second line (OFF if deactivated, ON if active).

The + and - buttons can be used to modify the value from Off (function deactivated) to On (activated) and the OK button can be used to confirm.

Pressing the OK button with the value ON activates the function and the display will propose to choose how many minutes must pass before the device switches off in stand-by mode.

(example 4 minutes)

The + and - buttons can be used to modify the time, and the OK button to confirm

Pressing the OK button automatically takes you to the first level.

- PELLET LOADING

Allows for loading the pellets once the screw feeder has emptied completely.
Useful for the technician during the initial start-up.
Available only in the OFF status. Any attempt to activate the function in other statuses will not be allowed.

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

After entering the Screw Feeder Manual Loading function, the display will show the name of the function on the first line of the status bar and the current value on the second line (OFF if deactivated, ON if active).

With buttons + and - the value can be changed from Off (deactivate) to On (activate) and vice versa and with button + and - it can be adjusted.

Pressing the OK button automatically takes you to the first level.

- CRONO SETTING

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

OK

day of the week
e.g. = MON = Monday

The day of the week is selected by scrolling with buttons < and > (at the same time the programming of that day is displayed) and confirmed with button OK.

day of the week
e.g. = MON = Monday

The time at the top right displays the start of the time slot (00:00)

buttons < and > enable to scroll through the time in half an hour steps.

With buttons + and - the Temperature levels can be changed (OFF - T1 and T2).

After setting the entire day, confirm with the OK button

The COPY and PASTE function is available.

Briefly pressing the MENU button allows you to exit the programming mode, but the programme will not activate.

- TEMP. CRONO SETTING TEMPERATURE FOR CRONO T1 – T2

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

After entering the T1-T2 function, the display will show the name of the function on the first line of the status bar and the current value of T1 on the second line. T1 is the lowest temperature, T2 the highest.

Modify the values with the + and - buttons and confirm with the OK button.

The button OK switches to the setting of Set T2.

Pressing the OK button automatically takes you to the first level.

- DATE AND TIME

Can be used to set the current date and time.

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

After entering the Date-Time function, the display will show the name of the function on the first line of the status bar and the current value of the first setting (12/24 hours) on the second line.

You can switch from 12 to 24 hours using the + and - buttons and confirm with the OK button

Then the hours flash, which can be changed with buttons + AND - and they are confirmed with button OK

The minutes will then flash.

NOTE
Depending on the model there may be further options requested on the display with the interactive menu

- LANGUAGE SETTING

Selects the language.

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

When entering the Language Menu item, the name in the status bar on the first line of the function and on the second the current value is displayed (ITALIAN)

OK

The language can be changed with buttons + and - and you can exit with button OK.

Pressing the MENU button automatically takes you to the first level.

The following functions must be taken into account only following indications from the technician. Therefore, we do not report the complete explanation in this document

It can be accessed by pressing the MENU button and the first Menu item will appear.

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

The Menu items are as follows

STAND-BY: described in the user manual
PELLET LOAD: described in the user manual
CRONO: described in the user manual
TEMP. CRONO (T1-T2): described in the user manual
DATA-ORA: described in the user manual
LANGUAGE: described in the user manual
DISPLAY
INFO
SOFTWARE
DATA
ALARMS
PELLET FALL
PELLET SENSOR
TECHNICAL MENU
SET TEMPERATURE
AIRKARE

NOTE
Order and writing may vary slightly depending on the version

FOR THE INSTALLER

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button

You can scroll the menu items with the < and > buttons, and enter the item with the OK button

Pressing the OK button automatically takes you to the first level.

Pressing the MENU button automatically takes you to the first level.

THE INPUT METHOD IS THE SAME FOR ALL THE FUNCTIONS AND WE WILL NOT REPEAT IT IN THE FOLLOWING PAGES
WE DESCRIBE BELOW ONLY THE FUNCTIONS NOT DESCRIBED IN THE USER PART

- DISPLAY

Allows for choosing the level of brightness of the display.

- DISPLAY
Allows for choosing the level of brightness of the display.

- INFO
These readings should only be done when requested by the technician.
The technician understands the diagnostic meaning of the messages and values, and may ask you to read them to him/her if you experience problems.

To access the function from the main menu (as indicated in the Menu paragraph above), press the MENU button.

You can scroll the menu items with the < and > buttons

Pressing the MENU button automatically takes you to the first level.

- SOFTWARE

These readings should only be done when requested by the technician.

- DATA
These readings should only be done when requested by the technician.
Scroll the information on the product HOURS operation history with buttons < and >

- ALARMS
Readings to be made only under the guidance of a technician. Alarms are sorted from most recent to oldest.

-PELLET FALL **ONLY FOR THE TECHNICIAN**
-PELLET SENSOR **ONLY FOR THE TECHNICIAN**
-TECHNICAL MENU **ONLY FOR THE TECHNICIAN**
-SET TEMPERATURE ONLY FOR THE TECHNICIAN
-AIRKARE **ONLY FOR THE TECHNICIAN**

The functions must be taken into account only following indications from the technician. Therefore, we do not report the complete explanation in this document

NOTES
inappropriate changes can cause the product to seize up

The technician will be able to give you indications of any temperatures, parameters to be set according to the system

- SOFTWARE

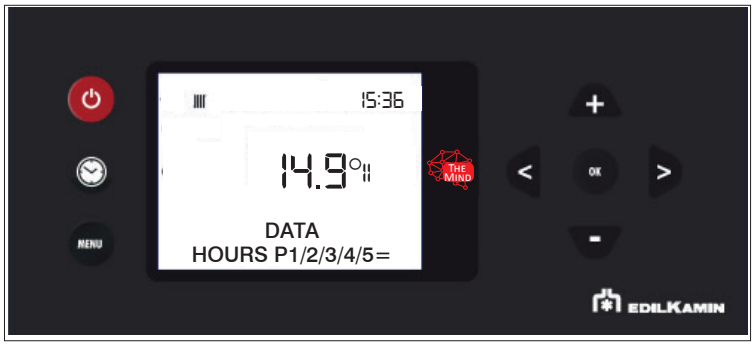
Indicates:
- the firmware version of the electronic board (basic board)
- the firmware version of the control panel
- the database (associated by the Technical Assistance Centres with the products)

To be read only under the guidance of the Technical Assistance Centre

- DATA

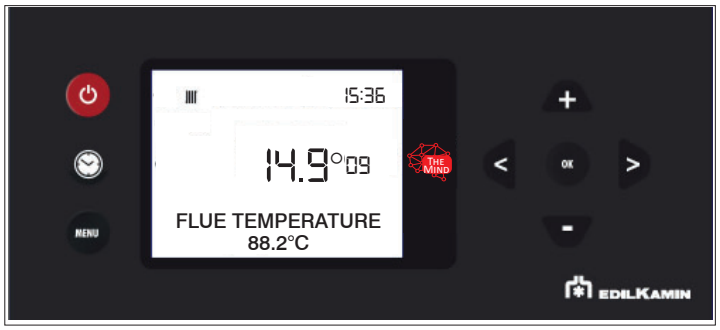
The information on the operation history of the product can be scrolled with buttons < >
Indicates:
- IGN. No.: number of ignitions
- WORKING HOURS: total working hours
- HOURS P1/P2/P3/P4/P5: hours worked in the single powers

OK



- INFO

They provide instant situation values



Below is a description of the items

Flue temperature indicates the value of the temperature read inside the product. To be read only under the guidance of the Technical Assistance Centre
Auger motor: indicates the speed set and read. Useful for understanding any anomaly in the motor that loads the pellets. To be read only under the guidance of the Technical Assistance Centre
Extractor: indicates the speed set and read. Useful for understanding any anomaly in the engine that creates depression in the combustion chamber. To be read only under the guidance of the Technical Assistance Centre
Leonardo: indicates the target value set and read. To be read only under the guidance of the Technical Assistance Centre
Fan: indicates the output voltage. To be read only under the guidance of the Technical Assistance Centre
Ignition plug (spark plug): indicates whether the ignition component is on or off. Useful in the ignition phase to understand functionality.
Home automation contact: indicates whether ON or OFF. Useful for understanding functionality.
Boiler temperature: indicates the value of the water temperature read inside the product. It also appears on the first level display only if “No Input” is set in the Input Ambience parameter. ATTENTION that the room temperature will no longer appear. IN CASE, TO BE CLARIFIED TO THE END CLIENT.
To be read only under the guidance of the Technical Assistance Centre
PWM pump : indicates the output value of the primary circuit pump (of the kit if optional) To be read only under the guidance of the Technical Assistance Centre.
3-way valve for heating : indicates the functionality of the valve.
Relaunch pump : indicates whether the pump is ON or OFF.
AUX relay : indicates if OPEN
Radio signal: indicates the signal strength in milliwatt decibels. Admissible values from 0 to -95dB

- ALARMS

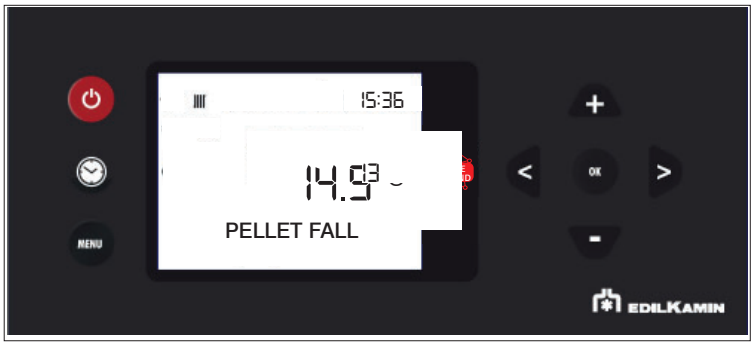
These readings should only be done when requested by the technician.

The alarms are arranged from the most recent to the oldest.

The meaning of the abbreviations is given in the user manual

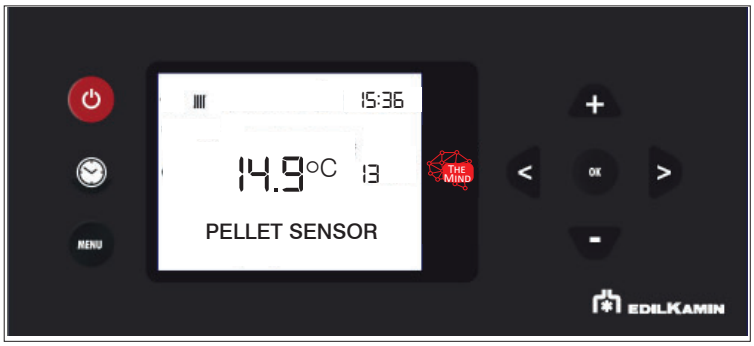
- PELLET FALL

Allows to set the gearmotor in continuous cycle or in steps. To be carried out only under the guidance of a technician.



- PELLET SENSOR

Allows to set the pellet level sensor ON or OFF.

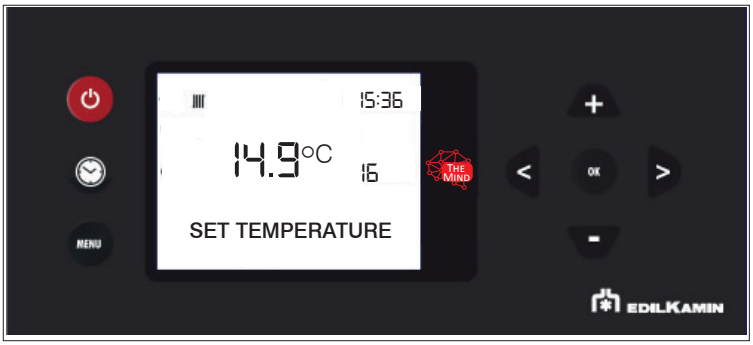


IN ORDER OF SCROLLING IT IS FOUND AFTER THE TECHNICAL MENU

- “SET TEMPERATURE” o the display (Setting the water temperatures)

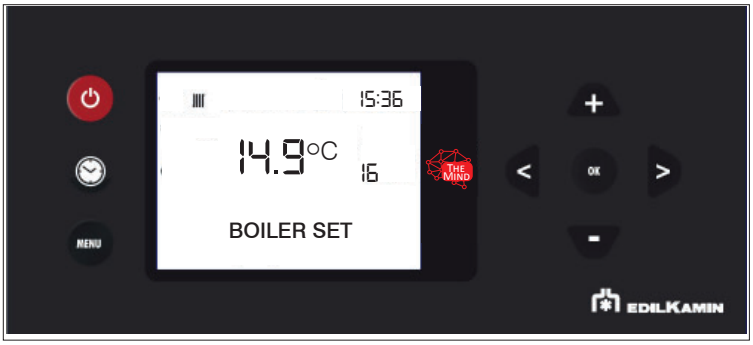
Allows the setting of the boiler temperature and possibly the storage temperature. If the external probe is activated, it allows the setting of the climatic curve instead of the boiler temperature.

ADJ T AMB 1 is also adjusted (i.e. the correction of the ambient probe)



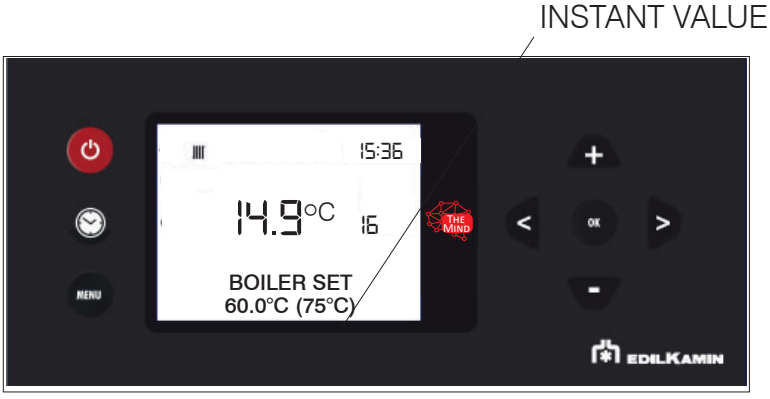
BOILER SET example

the product water temperature can be set (BOILER on display)



Depending on the configurations, the temperatures are displayed.

Example:



- TECHNICIAN MENU (for TECHNICIANS ONLY)

Accessible only by a technician in possession of the correct password (1111) Once the password has been entered, it must be confirmed with a button OK

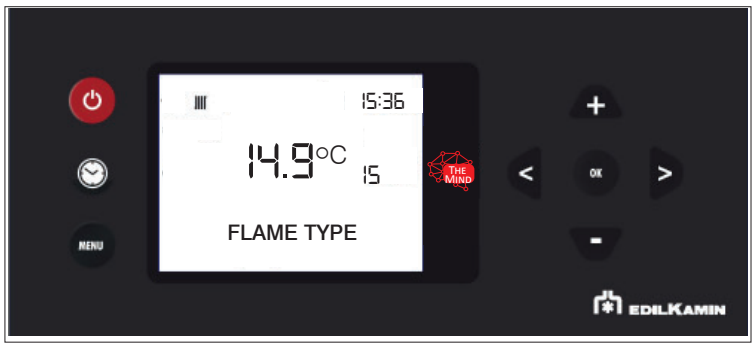
- **Flame type**
- **Pellet type**
- **Configuration**
- **Parameters**

NOTES
inappropriate changes can cause the product to seize up

- FLAME TYPE (only for the TECHNICIAN)

In correct installation conditions, with the Service Centre parameters appropriately adjusted, with quality pellets, the intensity of the flame is adjusted:
STANDARD
ECO
PLUS

You can enter the Flame Type setting using the button OK

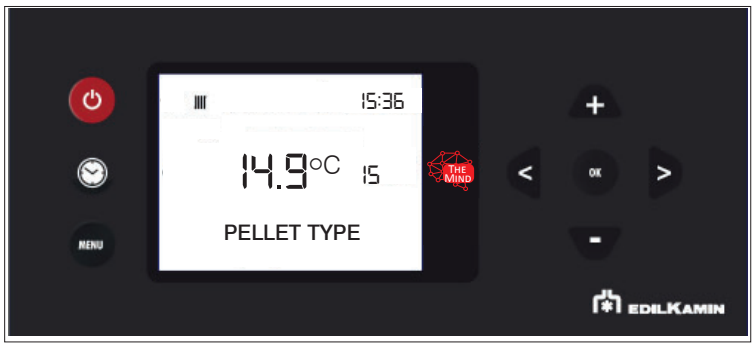


and with buttons + and - the correction value can be changed.

Pressing the MENU button automatically takes you to the first level.

- PELLET TYPE

In correct installation conditions, with the Service Centre parameters appropriately adjusted, with quality pellets, the pellet load is adjusted
MEDIUM
HIGH
LOW



Enter the Pellet Type (%) setting with button OK

and modify the value with buttons + and -

Pressing the MENU button automatically takes you to the first level.

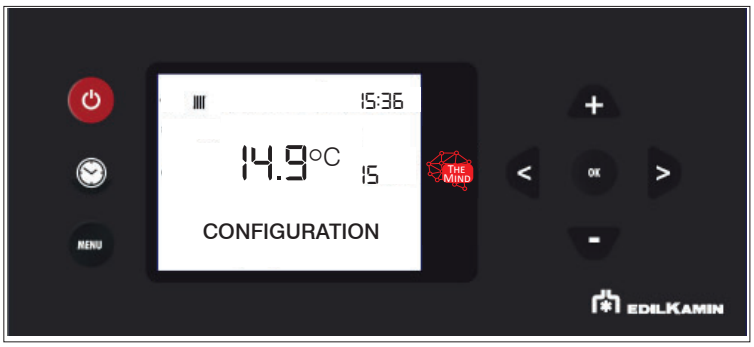
- CONFIGURATION

Scroll through the Technician Menu items with buttons < and > to the “CONFIGURATION” item

It is possible to enter the “CONFIGURATION” setting with button OK

and modify the value with buttons + and -

Pressing the MENU button automatically takes you to the first level.



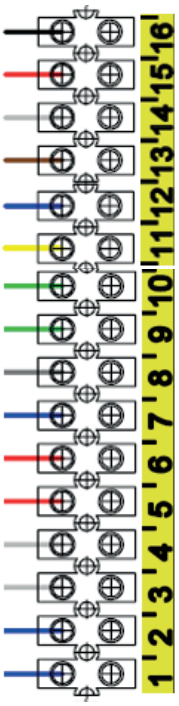
The installer chooses one of the 4 configurations:

0 DIRECT HEATING (possibly with combined boiler)
1 HEATING WITH PUFFER (inertial storage)
2 HEATING WITH SANITARY STORAGE (possibly with combined boiler)
3 HEATING WITH PUFFER (inertial storage) AND BOILER (storage of domestic hot water)

TO BETTER UNDERSTAND THE ABOVE FOLLOWING PAGES ON TERMINAL BLOCK AND SYSTEMS

To manage the various types of systems, connect the probes to the terminal board, as needed.

TERMINAL BOARD MAIN OUTLINE



15-16 CYLINDER PROBE (Optional NTC 10K) or THERMOSTAT (Optional)

13-14 DOMOTIC CONTACT (Input)

11-12 ROOM PROBE (Supplied) or ROOM THERMOSTAT (Optional)

9-10 BUFFER PROBE (Optional NTC 10K) - BUFFER THERMOSTAT (Optional)

7-8 BUFFER-CYLINDER DOUBLE PROBE (Optional NTC 10K probe)

4-5-6 AUX CONTACT - Output, aux boiler room thermostat or 3-way valve (COM = Common - NC = Normally Closed - NO = Normally Open).

1-2-3 SECONDARY PUMP POWER SUPPLY (Earth / Neutral / Phase)

HOME AUTOMATION CONTACT 13-14

For all types of systems:
HEATING - KETTLE - PUFFER - PUFF / TUB
it is possible to connect a remote control with clean contact (closed on request, open not on request).
This contact has the same function as the on / off button on the display.
Following the closure of the contact, however, the thermo stove will follow its objective defined by the selected system and the functions associated with it, as happens when the power button on the display is pressed.

There are 4 pre-set configurations as shown below.

DAILY MAINTENANCE

These jobs should be done with the product off, cold and preferably disconnected from the mains.
A suitable vacuum cleaner is required.

Disconnect the product from the power supply.
Failure to service the product properly will prevent it from working properly.
Any problems due to failure in servicing the stove will void the warranty.

Make sure that the grate is properly placed in its housing after maintenance operations, if not, the stove may have ignition problems

Using the stove without cleaning the grate can cause the gas in the combustion chamber to ignite and detonate.

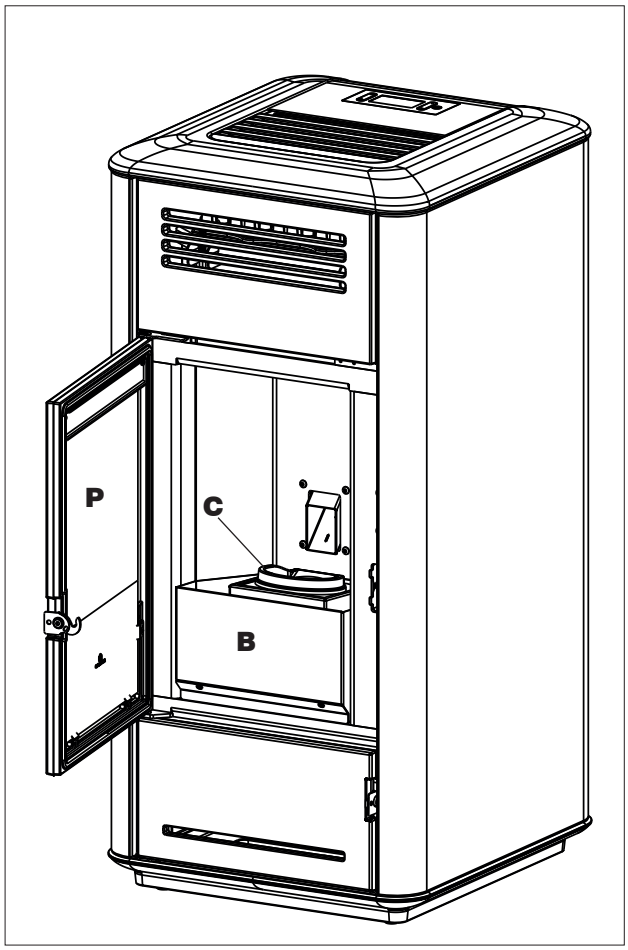
Once it is refitted, make sure that the ash tray is properly placed in its housing, to avoid glass breakage when closing.

Please check with the technician to have wenn understood how the product works

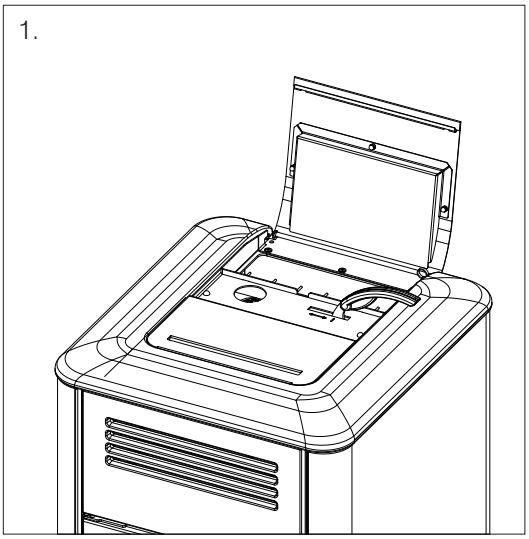
Disconnect the product from the power supply.
Failure to service the product properly will prevent it from working properly.
Any problems due to failure in servicing the stove will void the warranty.

DAILY MAINTENANCE

1. Pull the cleaning brush placed under the pellet load lid with the cold hand
2. Open the combustion chamber door (P) using the protective lever (removable handle)
3. Empty the ash tray (B) and the grate (C) into a non-flammable container (the ashes may still contain embers and/ or hot parts, or clean using a vacuum cleaner if cold. Vacuum out the interior of the fireplace, the bed, and the compartment around the grate into which the ash falls.
4. Scrape the grate and clean out any obstructed holes.
5. Clean the glass (when cold) if necessary, by using a suitable product (such as Glasskamin) available at the retailer.



1.



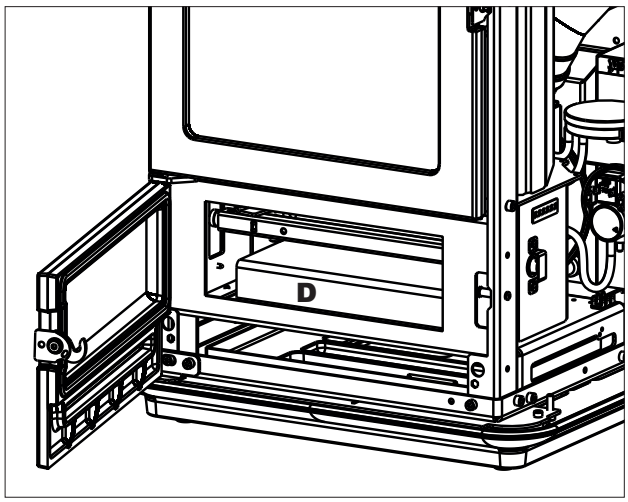
WEEKLY MAINTENANCE

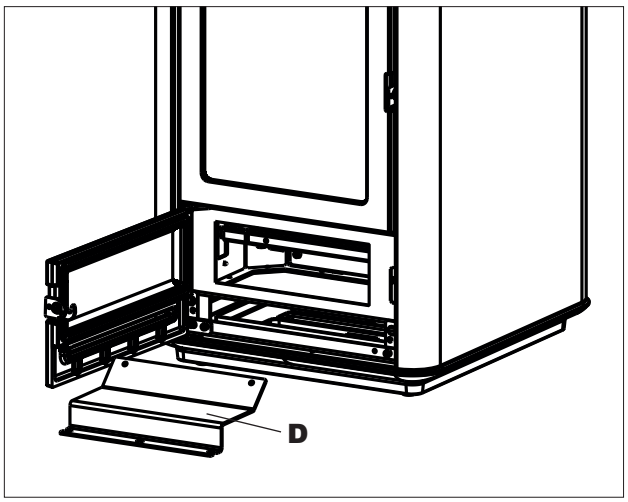
When the product is off and cold, after having activated the cleaning brush as in routine maintenance, you should vacuum the inspection plate under the combustion chamber (*)

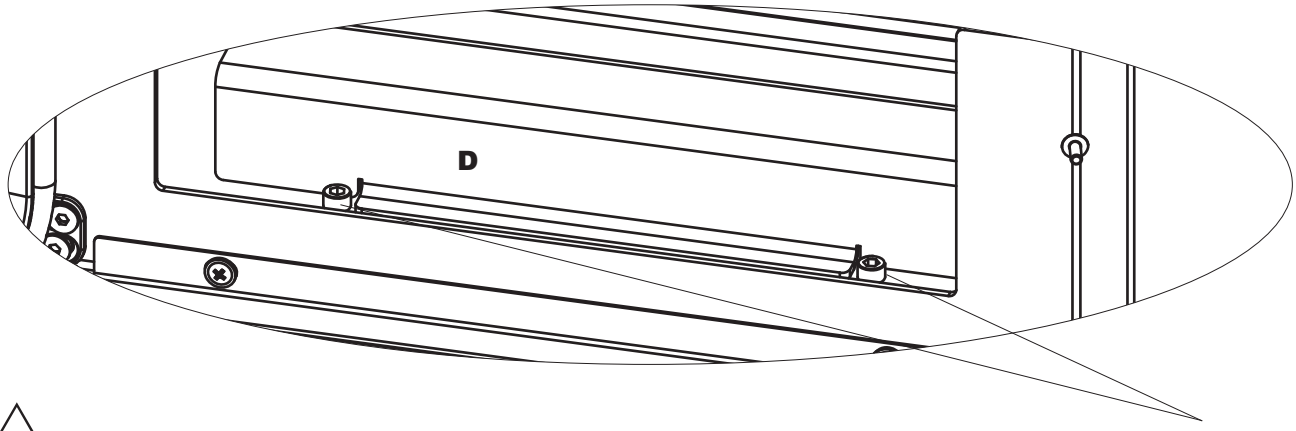
To access:

- Open the door using the cold handle (removable handle)
- remove the deflector (D) which is only resting on it.

Put back the deflector after cleaning.







Make sure you have correctly repositioned the deflector after cleaning,
it should be properly horizontal and inside the two screws. Reposition the deflector after vacuuming.

SEASONAL MAINTENANCE
(to be carried out by the technical assistance centre)

This consists of cleaning the stove inside and out.
Seasonal maintenance should be performed by a qualified technician in accordance with the national and local regulations.

If the product is used intensively, it is recommended to clean the smoke duct and passage every 3 months.

You should clean the chimney system at least once a year (check local regulations for details).

If you fail to regularly clean and inspect the system, there is an increased risk of the chimney pot catching fire.

We recommend against using compressed air to clean the combustion air inlet.

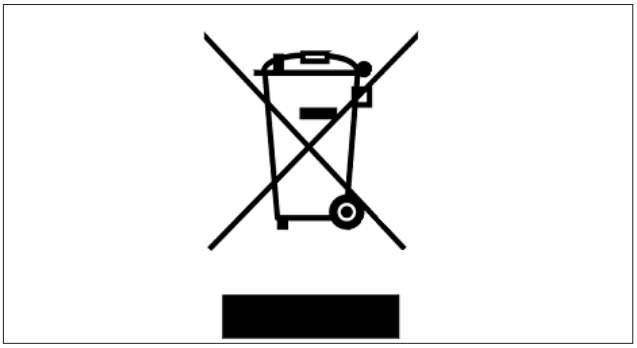
REPAIRS
To be performed only by Edilkamin technical assistance centres/authorised distributors. The names of Edilkamin official authorised technical assistance centres (TAC) and distributors are available ONLY at www.edilkamin.com.

SUMMER SHUTDOWN
When the product is not used for prolonged periods, keep all its doors, hatches and covers closed.
We recommend emptying out the pellet tank.
Insert dehumidifying salts in the combustion chamber.
In particularly humid zones, it may be helpful to disconnect the air intake and fume coupling, and add into the combustion chamber a suitable product for absorbing moisture (e.g. bags of dehydrating salts, anti-oxidant tablets).

SPARE PARTS
- If any spare parts are required, contact your dealer or technician.
- Have any repairs carried out only by Edilkamin technical assistance centres/authorised dealers.
- The names of Edilkamin official authorised technical assistance centres (TAC) and distributors are available ONLY at www.edilkamin.com.
- Using non-original spare parts may damage the appliance and relieves Edilkamin of all liability for any resulting damages. It also invalidates the warranty on the grounds of tampering.
- Any unauthorised modifications are forbidden.

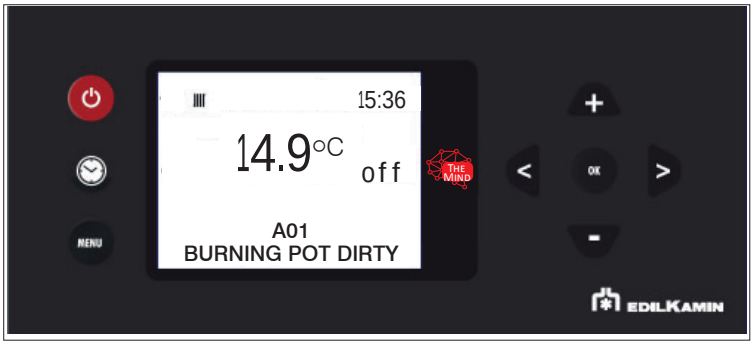
DISPOSAL
At the end of its service life, dispose of the product as required by regulations.

Seasonal maintenance should be performed by a qualified technician in accordance with the national and local regulations.



In accordance with Art. 26 of (Italian) Legislative Decree no. 49 of 14 March 2014, “Implementation of Directive 2012/19/EU on the disposal of electrical and electronic devices (WEEE)”.
The crossed-out dustbin symbol displayed on equipment or its packaging indicates that the product at the end of its life must be collected separately from other waste.
At the end of its useful life, the user should therefore deliver the product to a suitable local sorted collection centre for electrical and electronic devices.
Sorted collection for recycling, treatment and environmentally compatible scrapping contributes to the prevention of negative effects on the environment and health, and promotes the re-use and recycling of the materials of which the equipment is made.

If problems occur, the product shuts itself off automatically.
The display will show the reason (see below).



MESSAGE	PROBLEM	SOLUTION
A01 burning pot dirty	displays when the combustion air intake is below the set level	• Check that the combustion chamber door is closed • Check the regular maintenance of the stove • Check that smoke discharge and combustion air ducts are clean.
A02	displays when the logic board is not detecting the right smoke fan speed	• Contact the technician
A03	displays when the thermocouple detects a smoke temperature lower than the set value and interprets this as the absence of flame	• Check that there are pellets in the tank • Check that the water temperature has not increased due to the closure of a valve (call a technician) • Contact the technician
A04	displays when ignition times out unsuccessfully	There are two possibilities: NO flame: • Check that the burning pot is seated properly and clean • Check that there are pellets in the tank and burning pot • Try switching it on with a solid ecological igniter (contact the technician beforehand and follow the instructions of the igniter supplier very carefully). The operation must be regarded purely as a trial under the technician's guidance
A05	Shutdown due to air flow rate sensor breakage	• Contact the technician
A06	displays when the logic board determines that the smoke temperature probe is broken or disconnected	• Contact the technician

MESSAGE	PROBLEM	SOLUTION
A07	Shutdown due to exceeding maximum smoke temperature.	• Check the type of pellet (contact the technician if in doubt) • contact the technician
A08	Switching OFF due to excessive overheating of the product	• see HO7
A09	Shutdown due to gearmotor breakage or seizure	• Contact the technician
A10	Switching OFF due to circuit board overheating.	• Contact the technician
A11	Switching OFF due to the intervention of the safety pressure switch.	• Ensure the stove and flue are clean • Contact the technician
A12	Room temperature probe failure.	• Contact the technician
A13	Shutdown due to breakage of the reading water temperature probe of the boiler stove.	• Contact the technician
A14	Shutdown due to breakage of the water temperature probe in the boiler	• Contact the technician
A15	Shutdown due to exceeding maximum water temperature in the boiler stove	• Contact the technician
A16	Shutdown due to breakage of the pressure switch for reading the water pressure of the boiler stove	• Contact the technician
A17	Shutdown due to breakage of the external probe	• Contact the technician
A18	Shutdown due to breakage of the water temperature probe in the inertial storage tank	• Contact the technician
A20	Shutdown due to gearmotor breakage or seizure	• Contact the technician

WATER OVERHEATING (SHUTDOWN WITHOUT ALARM)

If the water in the product reaches a temperature of 85°C, the product shuts down without switching to alarm mode.
The text STBY appears on the display next to the room temperature.
The product is working, but it must be serviced by an authorised Edilkamin technician.

MAINTENANCE (SIGNAL THAT DOES NOT CAUSE SHUTDOWN)

A spanner symbol will appear on the display after 2,000 hours of operation

The product is working, but it must be serviced by an authorised Edilkamin technician.

Seasonal maintenance should be performed by a qualified technician in accordance with the national and local regulations.

The names of Edilkamin official, authorised technical assistance centres (TAC) and distributors are available ONLY a
www.edilkamin.com

EDILKAMIN
TECNOLOGIA DEL FUOCO

www.edilkamin.com

cod. 942417-GB 09.22/B