SPOT100 H

MANUAL
installation, use and maintenance

For all updates visit www.edilkamin.com

CE MARKING INFORMATION

The writer EDILKAMIN S.p.a., with registered office in Via P. Moscati 8 - 20154 Milan - Fiscal Code/VAT No. 00192220192, declares under its own responsibility that the products shown on the cover comply with EU Regulation 305/2011 and with the harmonised European product standard in force

The declaration of performance is available on the website www.edilkamin.com
It also declares that:
the products shown on the cover meet the requirements (where applicable) of the following European Directives:
2014/35/EU-Low Voltage Directive
2014/30/EU-Electromagnetic Compatibility Directive
2014/53/UE:RED
2011/65/EU-RoHS Directive
2009/125/EU-Ecodesign
2010/30/EU-Labelling

Dear Sir/Madam
We thank you for and congratulate you on choosing our product. Before using it, we ask you to read this manual
carefully, in order for you to be able to 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.ek-63.com

After unpacking the product, check the condition and completeness of the contents.

In the event of error, immediately contact the retailer where the purchase was made, providing them with a copy of the warranty booklet and the sales receipt.
The appliance must be installed and operated in compliance with local and national law and European regulations. For the installation, and for anything not specifi cally indicated in the manual, observe local regulations.

The diagrams provided in this manual are for illustration purposes only: they do not always strictly refer to your specifi c model, and are not binding in any way.

The product is uniquely identified by a number, the "counterfoil", which is indicated on the warranty certificate.

Please keep:
• the warranty certificate accompanying the product
• the purchase receipt given to you by the retailer
• the declaration of conformity given to you by the installer.
The warranty conditions are given in the warranty certificate
accompanying the product.

The warranty, however, covers only demonstrable manufacturing defects and not, for instance, problems resulting from improper installation or calibration.

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.

SAFETY INFORMATION

- The appliance is not designed for use by people, including children, with limited physical, sensory and mental capacities.
- The appliance is not intended to be used for cooking.
- The appliance is designed to burn UNI EN ISO 17225-2 category A1 wood pellets, in the amounts and manner described in this manual.
- The appliance is designed for use indoors, in normal conditions of ambient humidity.
- 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: neither the producer nor the reseller are liable for damage resulting from incorrect installation or maintenance.

Safety risks may be caused by:

- installation in unsuitable conditions. In particular, conditions of fire hazard. 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 THE STOVE'S HOT PARTS; always wear the gloves when working with the stove, even if switched off, when it is still hot. Failure do so can result in burns.
- 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.
- use of fuel other than wood pellets. DO NOT BURN WASTE MATTER, PLASTIC OR OTHER MATERIALS THAN WOOD PELLETS IN THE HEARTH. The product may be soiled, the flue may catch fire, and environmental damage may ensue.
- cleaning the hearth when hot. DO NOT CLEAN THE HEARTH WITH A VACUUM CLEANER WHILE IT IS HOT. Risk of damage to the cleaner and smoke in the room.
- cleaning the fumes duct with cleaning products. DO NOT CLEAN THE PRODUCT WITH FLAMMABLE PRODUCTS. Risk of fire and blowback.
- cleaning the hot glass pane with unsuitable cleaning products. DO NOT CLEAN THE GLASS WHILE IT IS HOT WITH WATER OR ANY OTHER PRODUCT THAN THE RECOMMENDED GLASS CLEANING PRODUCTS. Risk of cracking and irreparable damage to the glass.
- storing flammable materials within the safety clearance indicated in this manual. DO NOT PLACE LAUNDRY ON THE PRODUCT. DO NOT PLACE DRYING RACKS WITHIN THE SAFETY CLEARANCE. Keep flammable fluids away from the product. 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 hearth 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.

Licensed and qualified Technical Assistance Centre/ITC retailers company names are available on the ITC website www.edilkamin.com ONLY.

√ 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 dealer or the installer.

√ Switch the appliance on ONLY with the cladding mounted.

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

TECHNICAL DATA

TECHNICAL DATA -EN 14785 The data shown is purely indicative and was measured during the certification phase at a notified body under standard conditions.			
	SPOT100 H		
	Nominal power	Reduced power	
Available power	10,1	3,8	kW
Power water	6,5	2,3	kW
Efficiency	91,2	92,8	%
CO emissions at 13% O_2	0,012	0,011	%
Fumes temperature	159	95	°C
Fuel consumption *	2,3	0,9	kg/h
Tank capacity	14		kg
Draw	10,1	8,2	Pa
Autonomy	16	6	ore
Water content	10		l
Maximum operating pressure	1,5		bar
Maximum operating temperature	90		°C
Heatable volume **	265		m^3
Fumes outlet diameter	80		mm
Air intake diameter	40		mm
Weight including packaging	150		kg
Energy efficiency class according to UE 2015- 1186 regulation (Class A++/G)	A+		

NOTES ON THE TECHNICAL DATA
- A calorific value of 4.8 kW/kg was used to calculate consumption.
- The heatable volume is calculated based on the assumption of a heating demand of 33 Kcal/m^3 hour.
- The autonomy may vary in relation to the usage/installation/fuel characteristics and is not contractually binding nor can it constitute grounds for dispute.
- The product can work safely even with greater draught. Excessive draught could cause the product to switch off and/or lower its performance.

TECHNICAL DATA FOR RATING THE FLUE which must in any case satisfy the requirements of this sheet and the installation instructions for the product			
	SPOT100 H		
	Nominal power	Reduced power	
Fumes temperature at outlet	159	95	°C
Minimum draw	0,01		Pa
Fumes flow rate	6,6	3,8	g/s

ELECTRICAL SPECIFICATIONS	
Power	230 Vac +/- 10% 50 Hz
Nominal power absorbed	77 W
Reduced power absorbed	16 W
Power absorbed in stand by	2 W
Remote control frequency (provided)	300 W
Protection	Fuse 4 AT, 250 Vac 5x20

Reserves the right to modify the product without notification in the interests of improvement

Ecodesign TECHNICAL DATA

ecteco
Agenzia di consulenza tecnica ed ecologica

Inclusa nell'albo dei laboratori altamente qualificati, autorizzati dal Ministero dell'Università e della Ricerca Scientifica e Tecnologica ex art. 4 legge n. 46/82 (D.M. 25 maggio 1990)

ECODESIGN REQUIREMENTS FOR SOLID FUEL LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATION (EU) 2015/1185 AND ENERGY LABELLING OF LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATION (EU) 2015/1186

EK63 – SPOT100 H

Indirect heating functionality: YES

Direct heat output: 3,6 kW (space heat output)

Indirect heat output: 6,5 kW (water heat output)

Fuel	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
				mg/m^3 at 13%O_2				mg/m^3 at 13%O_2			
Log wood, moisture content ≤ 25 %	no	no									
Compressed wood with moisture content < 12 %	yes	no	**87,4**	**13**	**4**	**150**	**120**	**16**	**6**	**132**	**109**
Other woody biomass	no	no									
Non-woody biomass	no	no									
Anthracite and dry steam coal	no	no									
Hard coke	no	no									
Low temperature coke	no	no									
Bituminous coal	no	no									
Lignite briquettes	no	no									
Peat briquettes	no	no									
Blended fossil fuel briquettes	no	no									
Other fossil fuel	no	no									
Blended biomass and fossil fuel briquettes	no	no									
Other blend of biomass and solid fuel	no	no									

Characteristics when operating with the preferred fuel only:

Seasonal space heating energy efficiency ηs [%]: **87,4**

Energy efficiency index EEI: **128**

Energy efficiency class: **A+**

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	**10,1**	kW
Minimum heat output (indicative)	P_{min}	**3,8**	kW
Auxiliary electricity consumption			
At nominal heat output	el_{max}	**0,077**	kW
At minimum heat output	el_{min}	**0,016**	kW
In standby mode	el_{SB}	**0,002**	kW
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	P_{pilot}	**N.A.**	kW

Item	Symbol	Value	Unit
Useful efficiency (NCV as received)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	**91,2**	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	**92,8**	%

Type of heat output/room temperature control (select one)	
single stage heat output, no room temperature control	**NO**
two or more manual stages, no room temperature control	**NO**
with mechanic thermostat room temperature control	**NO**
with electronic room temperature control	**NO**
with electronic room temperature control plus day timer	**NO**
with electronic room temperature control plus week timer	**YES**
Other control options (multiple selections possible)	
room temperature control, with presence detection	**NO**
room temperature control, with open window detection	**NO**
with distance control option	**NO**

Contact details	Name and address of the manufacturer or its authorized representative.
Tel. +39 02 937621 www.edilkamin.it mail@edilkamin.it	Manufacturer: EDILKAMIN SPA Via Mascagni 7 20045 Lainate (MI) – ITALY

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

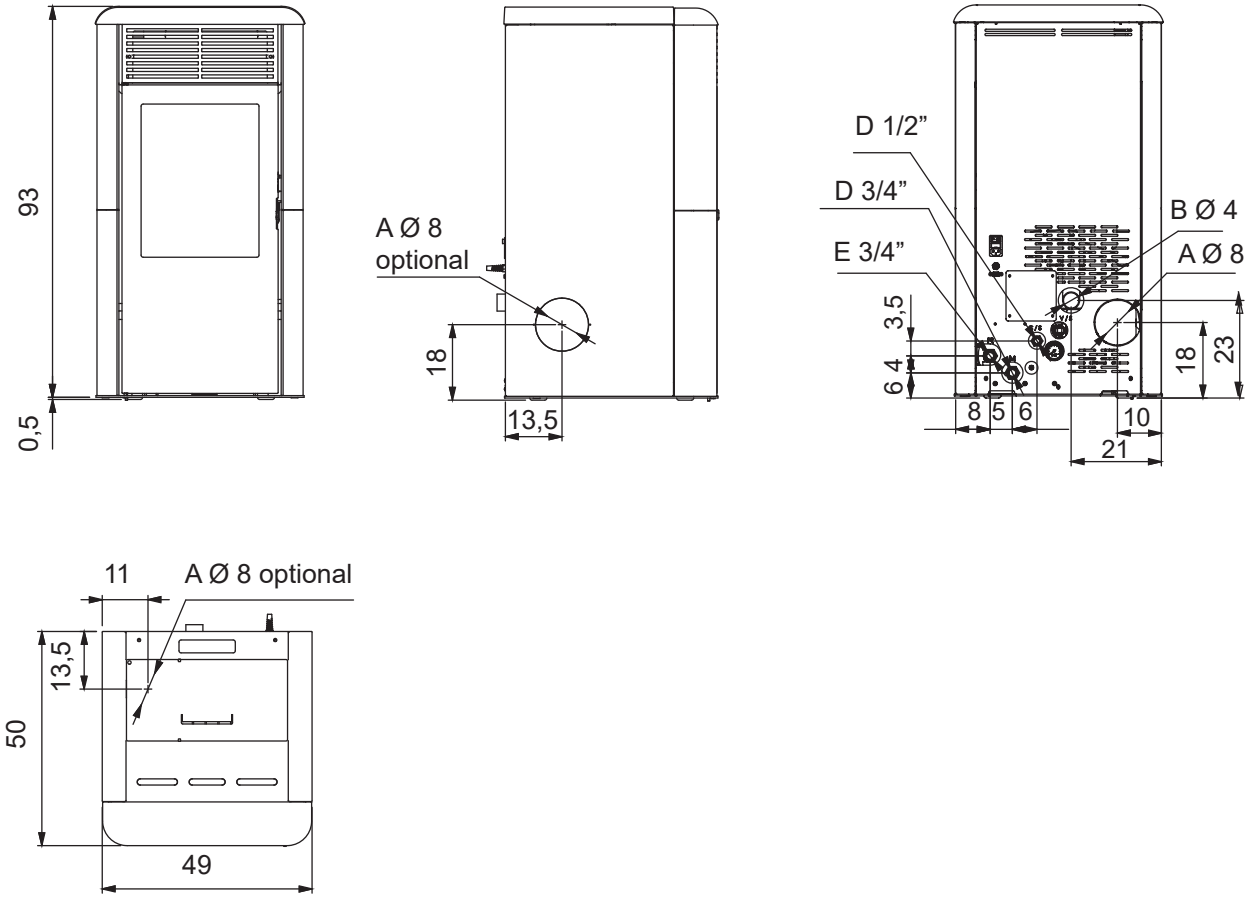
(**) Only required if correction factors F(2) or F(3) are applied.

DIMENSIONS

USER/INSTALLER
A: smoke outlet
B: combustion air inlet
C: air outlet for ducting (if present)
D: delivery (for hydro products)
E: return (for hydro products)
F: load (for hydro products)

SPOT100 H Smoke outlet rear

Dimensions cm



UNPACKING

PREPARATION AND UNPACKING

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

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

TO REMOVE THE PALLET

The thermo stove is fixed to the pallet with two screws, open the door and unscrew.

The packaging material (for example plastics, foil sheets) can be dangerous for children.
There is a risk of suffocation. Keep packaging away from children.

DO NOT TRY TO REMOVE THE PRODUCT FROM THE PALLET BEFORE UNLOADING THE SCREWS THAT FIX IT TO THE PALLET

COVERING

The thermostove is delivered with metallic sides (A-B) and the metallic brackets for fixing the ceramic side elements (D) already fitted. The pieces indicated below are packaged separately.

- 4 ceramic front side elements (C)
- 1 ceramic top insert (E)
- 2 dowels for the ceramic top insert (F)
- 8 M4 screws with milled heads (X)
- 8 washers Ø 4

To fit proceed as follows:
Fig. 1/2/3
Remove the two metallic brackets fixing the stove's ceramic side elements (D) by sliding them from the bottom upwards, about 3 cm. Apply metallic brackets (D) onto the back of the ceramic front side elements (C), fixing them into the holes provided using the M4 screws and the washers Ø 4 (provided).

Fig. 3/4
Fit the ceramic sides elements (C) (complete with metallic brackets) from above moving them downwards into the slot (L) on the square elements of the metallic side (M).

Fig. 5/6/7
Check the vertical alignment of the ceramic side elements (C) and make any necessary adjustments with the screws above the top (V - fig. 5) and inside the stove with the screws (R - fig. 6/7)

N.B. Before carrying out this operation, remove the galvanised panel (Z - fig. 6/7) on both sides and loosen the locking screws (T - fig. 6/7).

Fig. 4/8
Apply the two dowels (F) onto the lower side of the ceramic top insert (E), screwing them into the holes provided. Position the ceramic top insert, fitting the dowels into the holes (S) provided on the metallic brackets (D) installed previously.

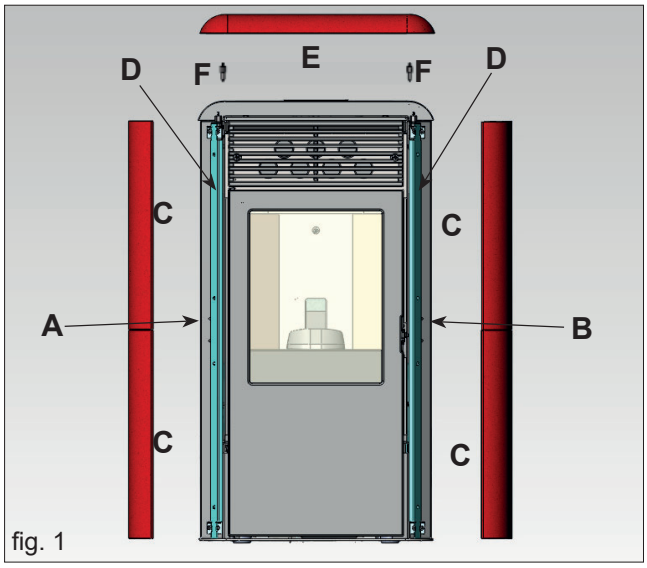


fig. 1

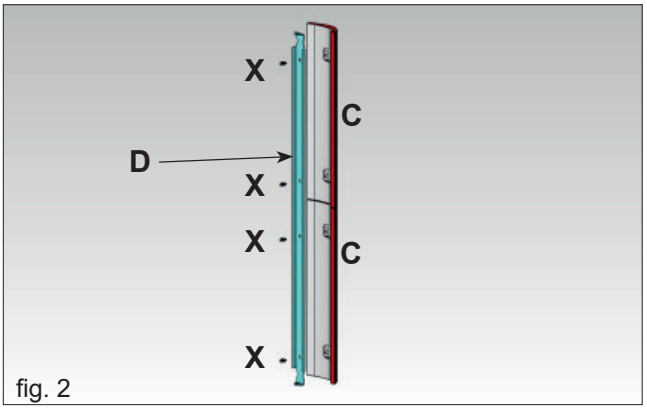


fig. 2

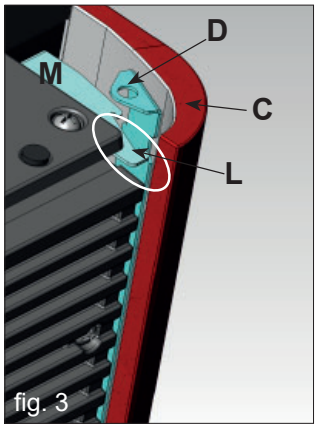


fig. 3

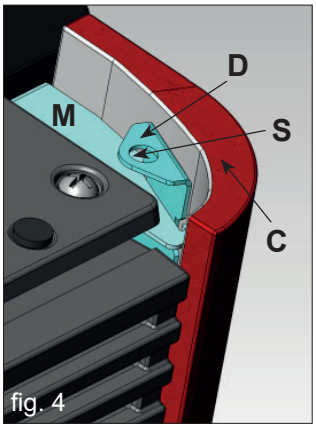


fig. 4

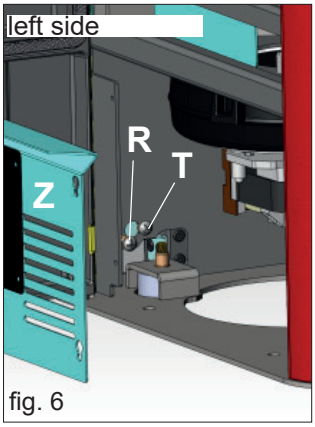


fig. 6

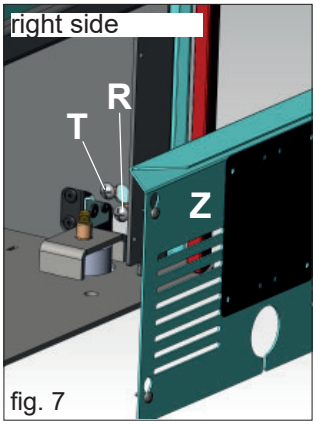


fig. 7

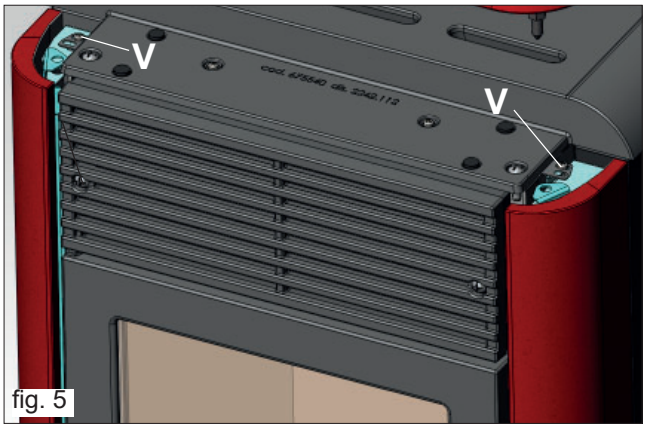


fig. 5

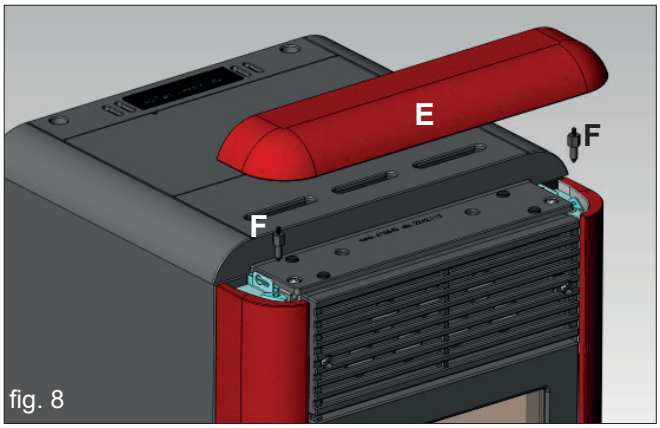


fig. 8

WATER CIRCUIT INSTALLATION

(FOR TECHNICAL ASSISTANCE CENTRE USE ONLY)
• SPOT100 H MUST NEVER OPERATE WITHOUT WATER IN THE SYSTEM.
• OPERATING PRESSURE MUST BE ABOUT 1.5 BARS.
• SWITCHING ON WHEN “DRY” CAN DAMAGE THE STOVE.

Plumbing must be carried out by qualified personnel and a declaration of conformity must be issued pursuant to Min. Decree 37
ex Law 46/90.
In any case, it is essential that the laws in force in the country concerned are followed.
• For the water input, return and discharge connections, opt for suitable solutions to facilitate, if necessary, a any future re-positioning
of the stove.
• For better performance, the primary circuit (where the heat generator is situated) must be separate from the secondary circuit
(user).
For example, using a plate exchanger which allows the exchange of energy in the form of heat without mixing the waters.

- Check that the plumbing system is correctly executed and is equipped with an expansion tank sufficient to guarantee its safety. The presence of the built-in tank in the thermo stove DOES NOT guarantee adequate protection from thermal expansion suffered by the water of the entire system. Therefore, the installer will have to evaluate the possible need for an additional expansion tank, depending on the type of system served.
- The direct connection to the radiators, due to the small diameter of their pipes, prevents regular operation.
- The water return temperature to the product must be higher than at least 50-55 ° C to avoid condensation. Depending on the system, the installer must evaluate whether valves or anti-condensation pumps are needed.

Fill the system through the filling tap (it is recommended not to exceed a pressure of 1.5 bar).
During the filling phase, let the pump “vent”;
opening the manual vents

This operation must also be carried out periodically thereafter.

WATER TREATMENT
It may be necessary to add anti-freeze, anti-scaling and anti-corrosion additives suitable for light alloys.
If the water for filling and topping up the stove has a hardness of above 35°F, use a water softener.
For suggestions, consult the standard UNI 8065-1989 (Water treatment in heating systems for civil use).

Gauge
The thermo stove has an analogue reading of the water pressure.
So there is an analogue pressure gauge on the back of the product.

NOTE:
• The installer must assess whether an extra expansion tank is necessary, according to the type of system served.

• During the production of domestic hot water, there is a temporary reduction in supply to the radiators.

INSTALLATION

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 regulation 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 affect the installer's liability for the installation.

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 appliance.
- 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.

The infiltration of condensation water through the flue is absolutely to be avoided.
If necessary, an anti-condensation ring must be fitted - ask your chimney sweep.
Damage caused by condensation water is excluded from the guarantee.

Protection from heat and safety clearances

The surfaces of the building 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:
- minimum clearance at the sides and back of 5 cm from flammable materials;
- no flammable materials may be kept closer to the front of the appliance than 80 cm.

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.
Contact the retailer for such optional equipment.

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 Technical Assistance Centre.

FLUE SYSTEM (FUMES DUCT, FLUE AND CHIMNEY POT)

This chapter has been drawn up pursuant to European regulations 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 fumes produced by combustion are exhausted in complete safety.

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

FUMES DUCT, FLUE

- The fumes duct (which connects the combustion chamber smoke outlet with the flue) and the flue itself must, among other regulatory requirements:
- receive the fumes from a single product (the outlets of 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 on the wall or into an enclosed space, even if the space in question is open to the sky
- be made of material rated fire reaction class A1 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 FUMES DUCT

Further to the general prescriptions for the fumes duct and flue, the fumes 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, there is risk of fire, or which cannot be inspected
- must enable the recovery of soot and be open for inspection
- have at most 3 bends with a maximum angle of 90°
- must have a single horizontal section with a 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.

The correct sizing of the chimney system is the responsibility of the installer.

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.

THE FLUE

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

- must serve solely to exhaust fumes
- must be correctly sized to satisfy the requirements of fumes exhaust (EN 13384-1)
- should 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 uncombusted matter and condensation
- if pre-existing, must be clean, to prevent the fire hazard
- in general, we recommend fitting a tube inside the existing masonry chimney if its diameter is greater than 150 mm.

INTUBATED SYSTEM

Further to the general prescriptions for the fumes duct and flue, the intubated system:

- must operate in negative pressure;
- must be open to inspection;
- must observe local regulations.

THE CHIMNEY POT

- must be windproof
- must have an internal cross section equivalent to that of the flue and a fumes outlet at least double that of the interior of the flue
- for dual flues (which should be spaced at least 2 m apart) the chimney pot receiving the fumes from the solid fuel appliance or that from the higher storey, must be at least 50 cm higher than the other
- it must extend beyond the back flow zone (in Italy, refer to UNI 10683 point 6.5.8.)
- it must allow for maintenance of the chimney.

COMBUSTION AIR INTAKE

In general, we suggest two ways to ensure a proper flow of combustion air. The air must be drawn from outside*
Please remember to also ensure air exchange for heating and glass cleaning air, etc.

Indirect air intake

The boiler stove draws the air from outside through a hole at the rear.
Install an air outlet at floor level with an effective surface area (net of the screen 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 surface area (net of the mesh or other protective equipment) equal to the cross section 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 flexible). Increase the diameter of the pipe if the pipe is not smooth: assess any load loss.
We recommend not exceeding a 3 m length, keeping in mind the draw of the flue. For each curve, up to a maximum of two curves, the length should be reduced by 1 m. Assess whether or not to increase the diameter of the pipe.

* The air maybe 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.

** Direct connection to the air intake will not make the product airtight. It is therefore necessary to additionally ensure an air intake from within the room where the product is installed (i.e. for glass cleaning).

CHECKING THE ELECTRICAL CONNECTIONS (the power socket must be located in an easy to access position)

The stove is equipped with an electrical power cord or connection to a 230V 50 Hz socket, preferably with an electromagnetic switch.

Variations in voltage of more than 10% can compromise the operation of the stove.

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 stove by setting its switch from 0 to 1.

There is a 4 A fuse on the socket with switch located at the rear of the stove.

SPOT100 H is designed for the connection of the flue at the top, back or side of the stove.
The stove is delivered ready for the ouput of the flue from the back (fig. 1).

FOR THE CONNECTION OF THE SMOKE OUTPUT TO THE CHIMNEY, WHETHER FROM THE BACK, SIDE OR TOP, IT IS NECESSARY TO REMOVE THE LEFT SIDE.
- Loosen (by about 15 mm) the two screws on the cast iron top under the steel cover (A - fig. 2).
- Open the door and remove the galvanised panel (B1 - fig. 3)
- Loosen the screw on the lower/front part of the right and left sides (B -fig. 3).
- Remove the screw above the top (see fig. 5 on page 208)
- Remove the metallic left side), moving it about 2 cm towards the front of the stove, extracting it first from below and then pulling it out from under the top (fig. 4).

At this point, choose the necessary flue connection.

REAR SMOKE OUTPUT CONNECTION
Connect the rear smoke output pipe (not provided) to the smoke extractor unit vent (C- fig. 5) with the band provided.
In this case it is sufficient to make the smoke output pipe (not provided) pass through the hole in the lower part of the sheet metal back (fig. 5).

LEFT SIDE SMOKE OUTPUT CONNECTION
Fit the elbow joint to the smoke extractor unit vent (D- fig. 6) with the band provided.
Connect the side smoke output pipe (not provided) to the aforementioned elbow joint.
Remove the pre-cut diaphragm from the sheet metal side to allow the smoke output pipe (not provided) to pass through (fig. 6).
Complete the operation by applying the closure rosette provided (E - fig. 7) using the screws provided, after replacing the metal side.

N.B. The rosette and the metal side must be fitted after the flue has been definitively fixed.

TOP SMOKE OUTPUT CONNECTION
Fit the elbow connection to the smoke extractor unit vent (Dfig. 8) with the band provided.
Connect the smoke output pipe (not provided) to the aforesaid elbow joint.
In this case, it is necessary to use the two sheet metal half-covers provided (G - H - fig. 9), instead of the whole sheet metal cover, and to eliminate the galvanised cap (I - fig. 8).
Remove the diaphragm from the small metal half-cover (G - fig.9) to allow passage of the pipe.

AFTER COMPLETING THE CONNECTION OF THE SMOKE OUTPUT PIPE TO THE FLUE, REPLACE THE LEFT METAL SIDE AND THEN CONTINUE WITH THE APPLICATION OF THE CASING.

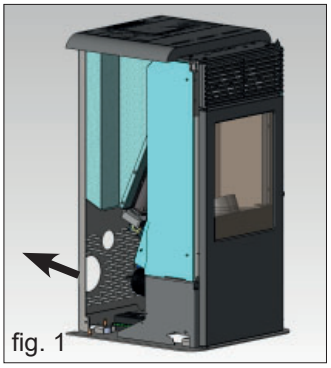


fig. 1

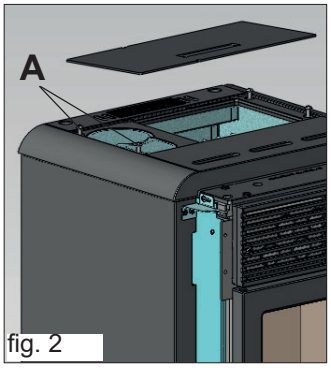


fig. 2

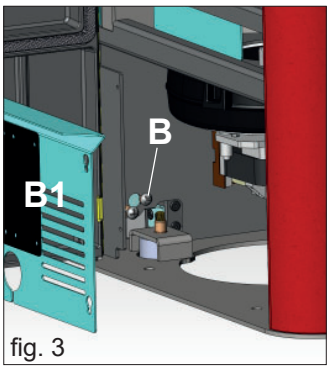


fig. 3

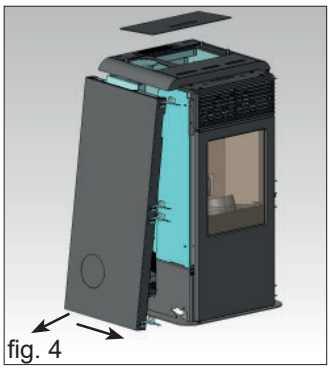


fig. 4

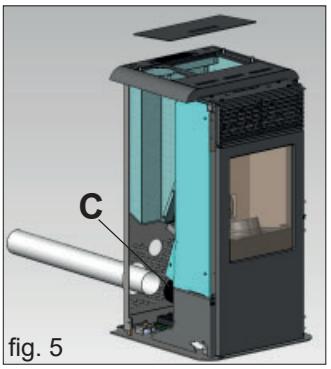


fig. 5

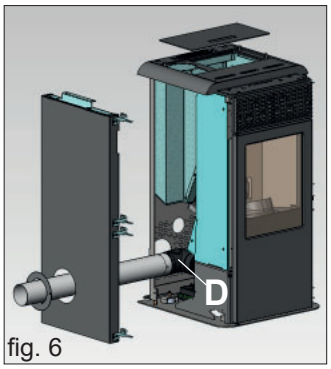


fig. 6

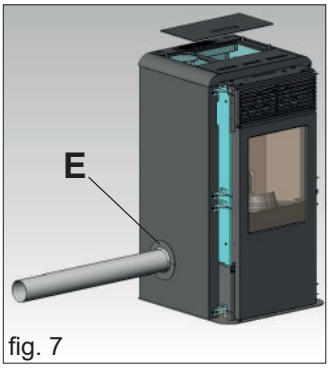


fig. 7

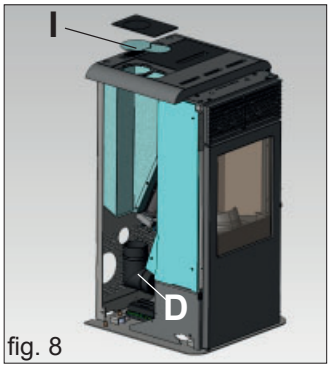


fig. 8

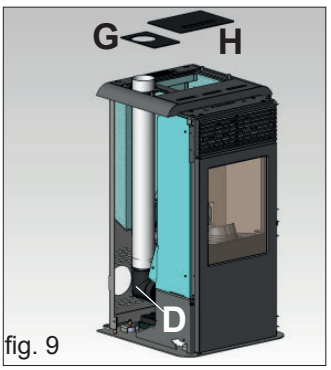


fig. 9

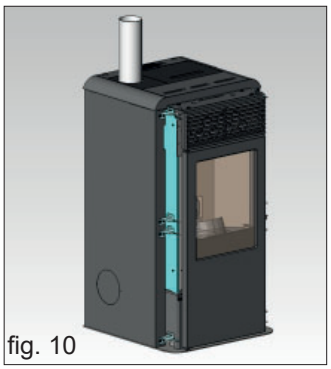


fig. 10

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 the technician has carried out first ignition for the product, and also filled the pellet reservoir for the first time. See the “load Screw feeder” function in the “User instructions” section.

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 protecting the environment, DO NOT burn plastic, painted wood, coal, bark or other such materials in the stove.
Do not use the stove as an incinerator.

PELLET

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

It is advisable to run the product at maximum power, with windows open for the first few days.

Like all products, this product, during the various phases, heats and cools.
This involves normal dilations. These expansions can cause slight settling noises which do not constitute grounds for dispute.

The product also has a settling during the first few days of operation.

CAUTION

Using fuels other than those specified can damage the appliance.

LOADING THE PELLETS INTO THE HOPPER

Remove the metallic cover in order to fill the hopper * (fig. 1).

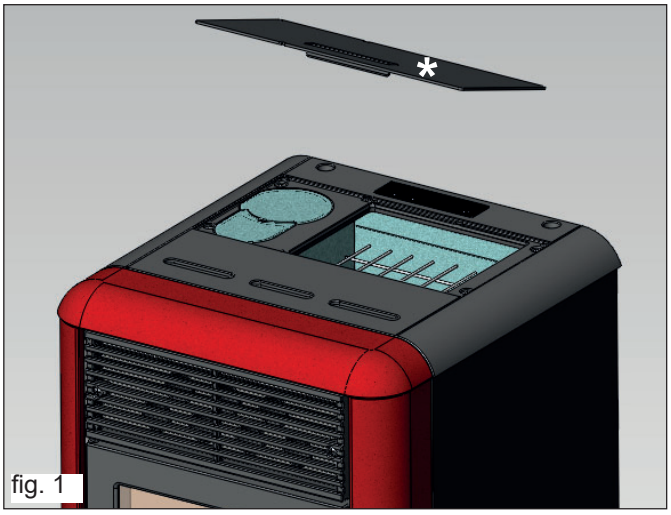


fig. 1

First Ignition/Testing by the Edilkamin authorised Technical
Assistance Centre (TAC)
Start-up must be carried out as prescribed by standard UNI
10683/2012, point 3.21.
The said standard indicates the checks to be carried out during
installation, aimed at ensuring the correct operation of the
system.
Edilkamin technical assistance (TAC) will also calibrate the
stove on the basis of the type of pellets and the installation
conditions.
Start-up by the TAC is necessary for the validity of the guarantee.
The first times the stove is lit, there may be a slight smell of
paint; this will soon disappear.

Before lighting the stove, check:
==> Correct installation.
==> The electricity supply.
==> The closure of the door, which must be air-tight
==> The cleaning of the crucible.
==> That indication of stand-by mode on the display (date, power or temperature flashing on and off).

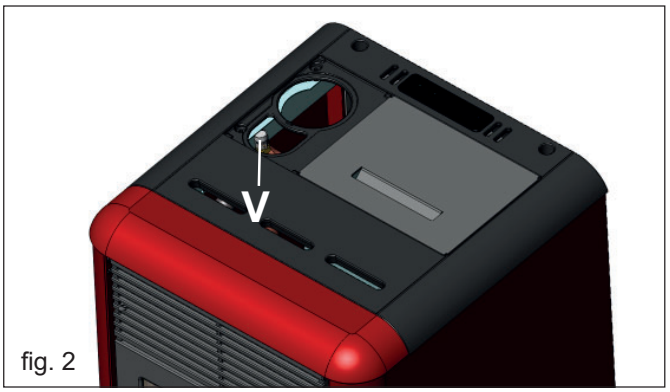


fig. 2

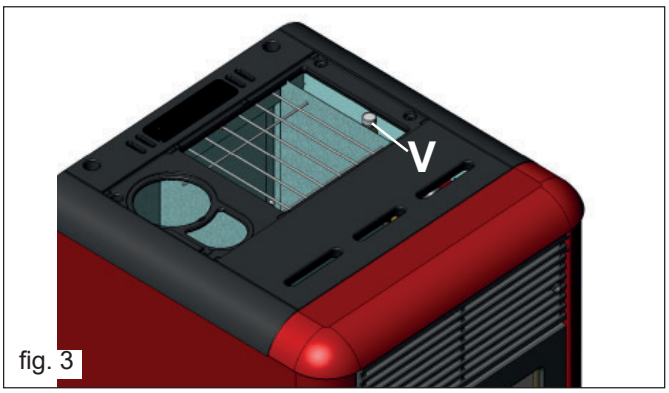


fig. 3

ATTENTION:
If loading the stove during operation, and therefore while hot, use the special glove provided.

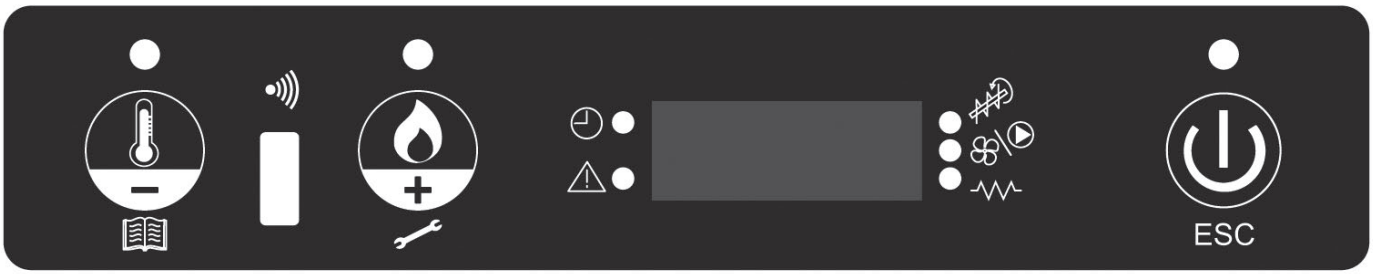
During the first ignition carry out the air/water bleeding
operation using the manual valve (V) under the steel covers (fig. 2-3).

N.B.: you can see the valve positioned on the right side if the metal right side will be disassembled.

When the product is hot, DO NOT PLACE the pellet bag.
Use a special glove if you load the stove while it is running and therefore hot.

During this operation NOT NEVER PLACE the bag of pellets on the upper grill, thus preventing the plastic bag from getting hot ruin the paint on the top. Use a special glove if you load the stove while it is running and therefore hot.

SYNOPTIC PANEL




key to set the desired environmental temperature (AIR) or to enter the menu


key to set the water temperature (H_2O)

on/off or confirm/quit menu key


indicates that the chrono-thermostat has been programmed for automatic ignition at set times


indicates an alarm condition


indicates the functioning of the pellet-loading motor


indicates functioning pump


indicates functioning spark plug

DESCRIPTION OF MENUS

To access the menus, press and hold the key  for 2 seconds (the LED switches off).

Press the key  or the key  , to scroll through the following menus:

DISPLAY	DESCRIPTION
M1	Set clock
M2	Set timer
M3	Language
M4	Stand-by
M5	Load screw feeder
M6	Status of stove
M7	Technician calibrations (TAC)
M8	Type of pellets (TAC)
M9	Exit

• To confirm the desired menu, press the key  .

• To return to the previous menu, press the key  for 3 seconds.

• To quit the menu, press the key  for 6 seconds.

SWITCHING ON/OFF

To switch the stove on/off, press the key  for 3 seconds.

LED on stove operating

LED flashing stove being switched off or in alarm state

LED off stove off

OPERATING

The stove has two operating modes:

- MANUAL:

In the MANUAL operating mode, the water temperature at which the stove must operate is set, independently from the temperature of the room in which it is installed.

The stove automatically adjusts the operating power on the basis of the water temperature, to reach or maintain the set water temperature.

To select the MANUAL operating mode, press the key  (the LED comes on) and the message 'AIR' appears with an indication of the temperature.

Pressing the key  will increase the temperature until the message 'MAN' appears on the display (above 40°).

To set the water temperature, press the key  (the LED comes on) and the message 'H_2O' will appear.

By means of the key  or the key  , the water temperature can be changed as desired.

- AUTOMATIC

In AUTOMATIC mode, it is possible to set the water temperature and the desired temperature of the room where the stove is installed.

When the desired environmental temperature (AIR) or the water temperature (H_2O) is reached, the stove will automatically adjust itself to minimum power.

To set the desired environmental temperature (AIR), press  (the LED comes on); the operating temperature at that mo

ment will be displayed; using the key  or the key  , the temperature can be changed as desired.

SCREW LOADING (only if the stove is completely without pellets)

To load the screw, enter the MENU by pressing the key for 2 seconds; then press the key until the message “M5 first load” appears on the display. Press the key to confirm, and then the key to activate the function.
This operation must only be carried out when the stove is off and completely cold.

Note: during this phase, the smoke extractor fan will remain on.

STAND-BY FUNCTION
In this mode, the stove will go off when the temperature of the environment is 0.5°C higher than that requested, after a set time of 10 minutes (which can be changed by the TAC during installation).
The message “GO STBY” will appear on the display, indicating the minutes remaining before switch-off.
This function is available in both ‘AUTOMATIC’ or ‘MANUAL’ mode and in the case of an external thermostat.
If the environmental temperature falls to 2°C below the set threshold, the stove will start up again (setting modifiable by the TAC during installation).

To activate the function, press the key for about 3 seconds; the message “M1 set clock” will appear on the display; press the key until the message “M4 stand by” appears on the display, then confirm by pressing the key .

Press the key to select “ON”, then confirm by pressing the key .

To quit the menu “M4 stand by”, press the key for about 6 seconds.

SETTING THE DATE AND TIME
Press the key for about 2 second; the message “M1 set clock” will appear on the display; then confirm by pressing the key .
The following data will appear in sequence: Day of the week, hour, minutes, day, month, year; these can be changed by pressing the key or the key . To confirm, press the key .

To quit the menu “M1 set clock”, press the key for about 6 seconds.

EXTERNAL THERMOSTAT

This must be connected by the blue wire (optional code 640560) to the serial port positioned on the back of the stove; it must have a clean, normally open contact (e.g. in the case of an environmental thermostat):
- Open contact = Environmental temperature reached
- Closed contact = Environmental temperature not reached

To select ‘E-T’ (external thermostat) mode, press the key (the LED will light up). Pressing the key will lower the temperature until the message ‘E-T’ (external thermostat) appears on the display (below 6°).

Note: When the stove is off, the external thermostat cannot switch the stove on or off.
If you want to switch the stove on or off outside the set time or outside the ‘E-T’ (external thermostat) setting, you must always do so using the key .

CHRONO-THERMOSTAT FOR DAILY/WEEKLY PROGRAMMING
There are 3 types of programming (daily, weekly, weekend), each of which is independent of the others and thus many combinations are possible according to the user's requirements (time programming is in 10 minute steps).

Press the key for 2 seconds; the message “M1 set clock” will appear on the display (and the LED will go out).

Press the key until the message “M2 set chrono” appears on the display; confirm by pressing the key .
To visualise the 3 programming modes (daily, weekly, weekend) press the key or the key , and confirm by pressing the key .

Scroll down the following menu (default setting is OFF):
- M2-1: enables the chrono-thermostat
- M2-2: daily programme
- M2-3: weekly programme
- M2-4: weekend programme
- M2-5: Quit

Choose the desired menu and confirm by pressing the key  .

To set the stove to switch on and off and for time changes press the key  or the key  , then confirm by pressing the key  .

To quit the programme press the key  for about 6 seconds.

Daily programming:
possibility of switching the stove on and off twice throughout the day, repeated every day:
Example:start1 10:00 stop1 12:00
start2 18:00 stop2 22:00

Weekly programming:
possibility of switching the stove on and off 4 times during the day, and to choose the days of the week.

For example:

start1 06:00 stop1 08:00		**start2 07:00 stop2 10:00**		**start3 14:00 stop3 17:00**		**start4 19:00 stop3 22:00**	
Monday	on	Monday	off	Monday	on	Monday	on
Tuesday	on	Tuesday	off	Tuesday	on	Tuesday	on
Wednesday	off	Wednesday	on	Wednesday	off	Wednesday	on
Thursday	on	Thursday	off	Thursday	off	Thursday	on
Friday	on	Friday	off	Friday	off	Friday	on
Saturday	off	Saturday	off	Saturday	on	Saturday	on
Sunday	off	Sunday	off	Sunday	on	Sunday	on

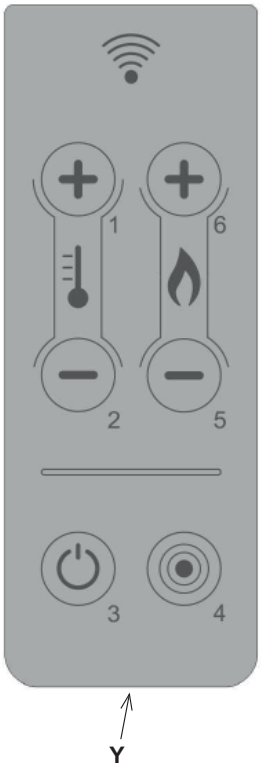
Weekend programming:
possibility of switching the stove on and off twice during the weekend:
Example: start1 week-end 07:00
stop1 week-end 11:30
Example: start2 week-end 14:20
stop2 week-end 23:50

REMOTE CONTROL

SYMBOLS KEY

3: on/off key, hold down for 2 seconds (short beep confirms when switched on, long beep confirms when switched off)
1: key to increase the desired room temperature (SET ROOM)
2: key to reduce the desired room temperature
6: key to increase the water temperature (SET WATER)
5: key to reduce the water temperature
4: key to open the menu

- The remote control transmits by means of an infrared signal within a range of 4-5 metres.
The LED transmission signal must be in line with the receiving LED of the stove for the signal to be transmitted correctly. This must also be in a free-field environment, therefore, free of obstacles.
- The remote control works with 3V battery. Battery duration depends upon usage, however, the average duration is that of an entire season.
To replace the battery, remove the door, Y, where the battery is housed.
The discharged battery should be properly disposed of in accordance with current regulations in force.
- the remote control must be cleaned with a damp cloth and no detergents or liquids must be sprayed onto it. In any case, use
neutral detergents which are free from aggressive substances.
- handle the remote control with care. It could easily break if dropped, due to its size.



NOTES:
- Operating temperature: 0-40 °C
- Storage temperature: -10/+50°C
- Operating humidity is: 20-90% R.H with no condensation
- Degree of protection is: IP 40
- Weight with battery inserted: 15 gr

MAINTENANCE

Before carrying out any maintenance, disconnect the appliance from the mains electricity.

Regular maintenance is the basis of good functioning of the stove.
IF YOU DO NOT PROVIDE FOR THE NECESSARY MAINTENANCE, the stove will not function correctly.
In the case of problems due to lack of maintenance, the guarantee will not be valid.

DAILY MAINTENANCE
Operations to be carried out with the stove off, cold, and disconnected from the electricity supply
• To be carried out with the aid of a vacuum cleaner (see optionals on page 221).
• The whole procedure takes only a few minutes.
• Open the door, remove the crucible (1 - fig. A) and tip out the residues into the ash tray (2 - fig. B).
• DO NOT TIP THE RESIDUES INTO THE PELLET HOPPER.
• Extract and empty the ash tray (2 - fig. B) into a non-flammable container (it could contain ash which is still hot and/or hot embers).
• Vacuum the inside of the combustion chamber, the combustion surface, and the area around the crucible where ash falls.
• Remove the crucible (1 - fig. A) and remove encrustations with the brush provided; remove any debris clogging the combustion
air holes.
• Vacuum the crucible chamber, clean the edges where the crucible comes into contact with its seat.
• If necessary, clean the glass (when cold)

Never vacuum hot ash; it will damage the vacuum cleaner and is a domestic fire risk.

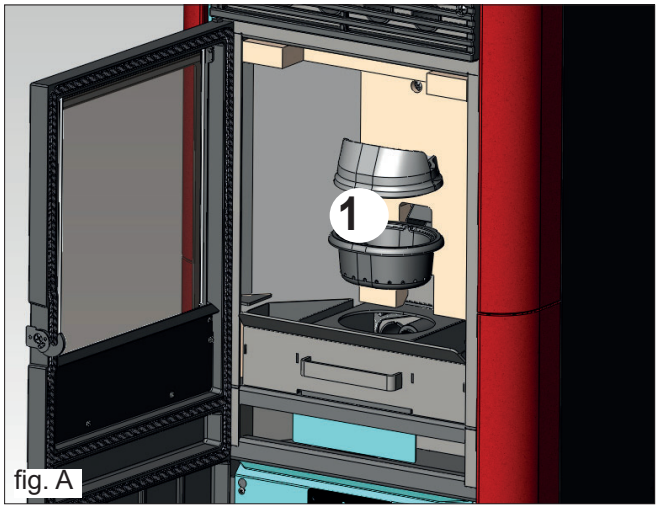


fig. A

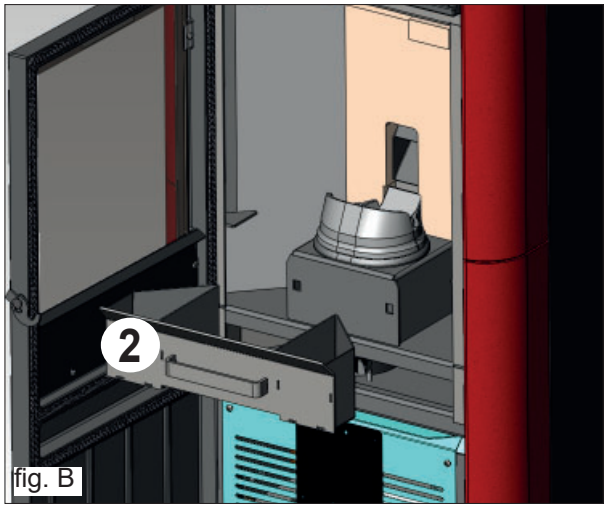


fig. B

Disconnect the product from the power supply.
The lack of maintenance does not allow the product to function regularly.
Any problems due to lack of maintenance will invalidate the warranty.

Make sure that the crucible is positioned correctly without the presence of ash or unburnt material on the perimeter of contact.

The use of the thermo stove, without having cleaned the crucible, could lead to the sudden ignition of the gases inside the combustion chamber with consequent detonation.

Make sure that the ash drawer, once reassembled, is well positioned in its seat.
Prevent it from hitting the door when closing.

MAINTENANCE

WEEKLY MAINTENANCE

• Extract the ceiling (3 - fig. C), move the brushes (6 - fig. D) and empty the residues into the ash tray (2 - fig. B).
• Empty the pellet hopper and vacuum the bottom.

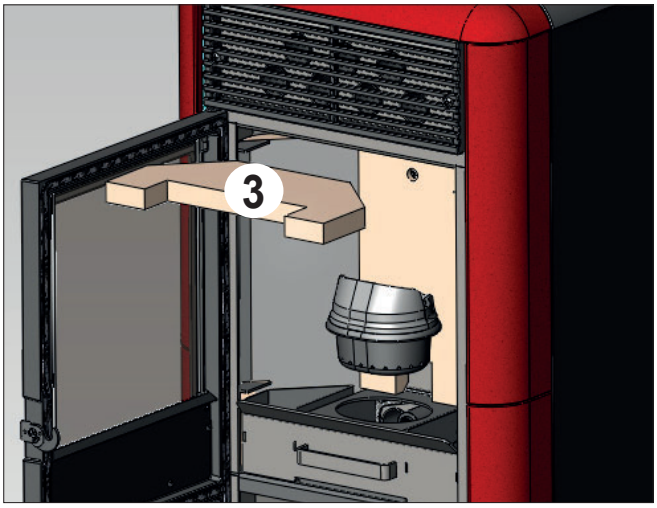


fig. C

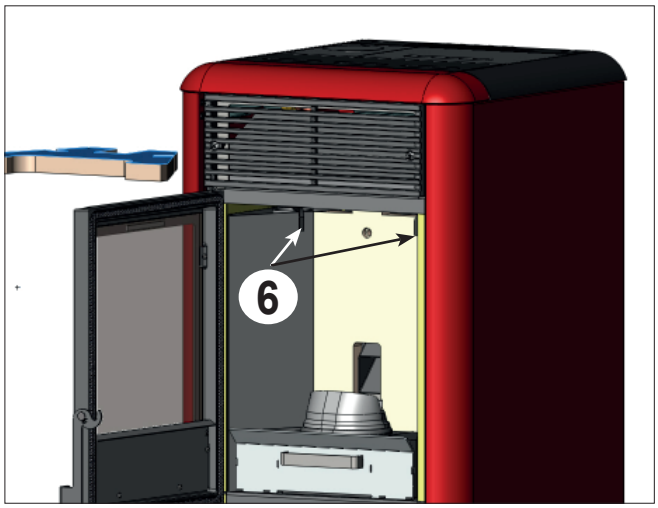


fig. D

ATTENTION!!

After normal cleaning, INCORRECT attachment of the upper part of the crucible (A) (fig. 1) with the lower part of the crucible (B) (fig. 1) can compromise stove functioning.
Therefore, before igniting the stove, make sure that the two parts of the crucible are correctly attached as indicated in (fig. 2) without any ash or unburnt fuel on the contact edges.
We remind you that using the stove without cleaning the melting pot, may cause a sudden ignition gas inside the combustion chamber with the consequent breaking of the glass.

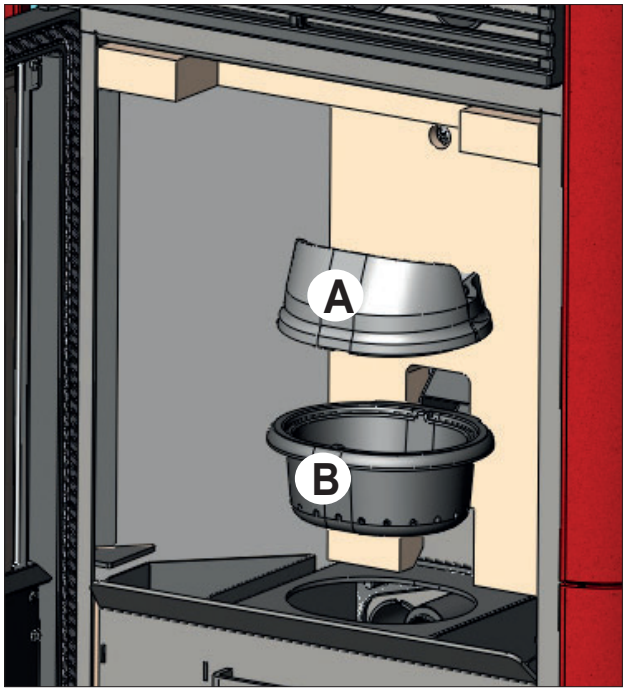


fig. 1

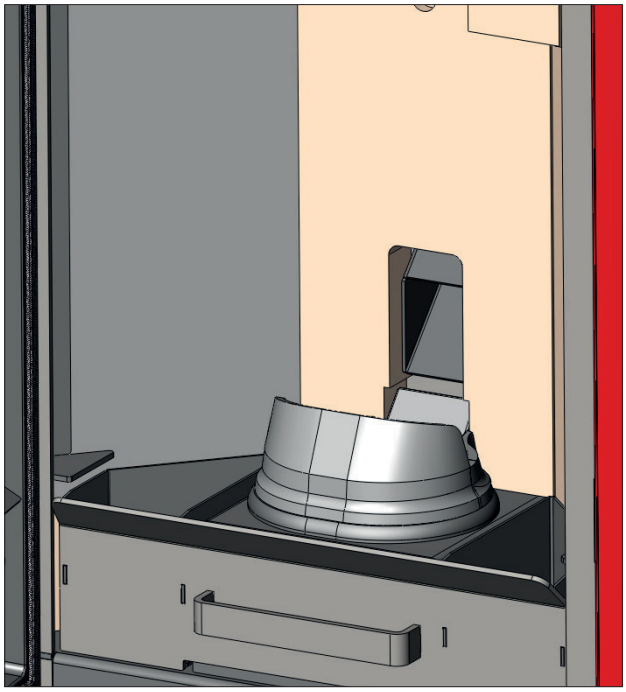


fig. 2

MAINTENANCE

SEASONAL MAINTENANCE
(to be carried out by the technical assistance centre)
This consists in cleaning the stove inside and out.

If the product is used intensively, we recommend cleaning the smoke duct and flue 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.

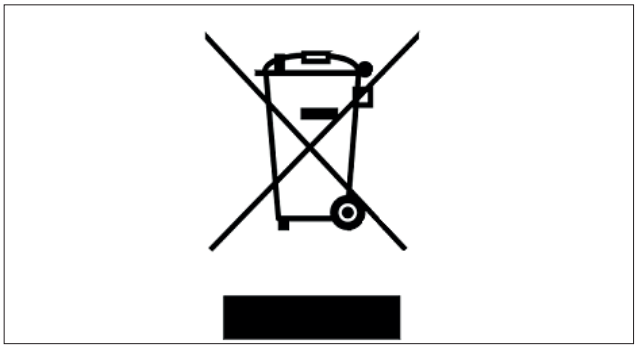
We recommend against using compressed air to clean the combustion air inlet.

SUMMER SHUTDOWN
During the period of disuse, keep the stoves doors, hatches and lids closed.
We recommend emptying out the pellet tank. Place the package of dessicating salts inside the combustion chamber.

SPARE PARTS
for any spare parts, contact your reseller or technician. Using non-original spare parts may damage the appliance and relieves Edilkamin of all liability for damage resulting there from.
Do not make unauthorised modifications

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

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.



In accordance with art. 26 of Legislative Decree no. 49 of 14th March 2014, “Implementation of Directive 2012/19/UE on the disposal of electrical and electronic devices (RAEE)”.
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.

TROUBLESHOOTING

In the case of problems, the stove will switch off automatically, and an indication of the cause will appear on the display (see the various messages below).

In the case of automatic switch-off, the stove must be allowed to complete the entire procedure (15 minutes with an acoustic signal), after which it can be restarted by pressing

the key  **.**

However, do not restart the stove until you have found out the cause of the error and until you have CLEANED/EMPTIED the crucible.

The stove is equipped with a safety valve, but if the routine clearing of the crucible is not carried out as illustrated previously, there are conditions that switching on may occur with a slight burst.

In the event of heavy and prolonged formation of white smoke within the combustion chamber, disconnect the electrical supply and wait 30 minutes before opening the small door and empty the crucible.

SIGNALS OF POSSIBLE CAUSES OF AN ERROR, TIPS AND SOLUTIONS:

SEGNALAZIONE	INCOVENIENTE	AZIONI
AL1 black out (this is not a stove error)	(this takes place if there is no electricity for more than 5 seconds)	The stove has a 'black out' function. It the electricity supply is off for less than 5 seconds, the stove will switch on again, returning to the function in progress before it switched off. If the electricity supply is off for more than 5 seconds, the stove will go into 'black out' alarm, with consequent cooling phase.

The possible causes are listed below:

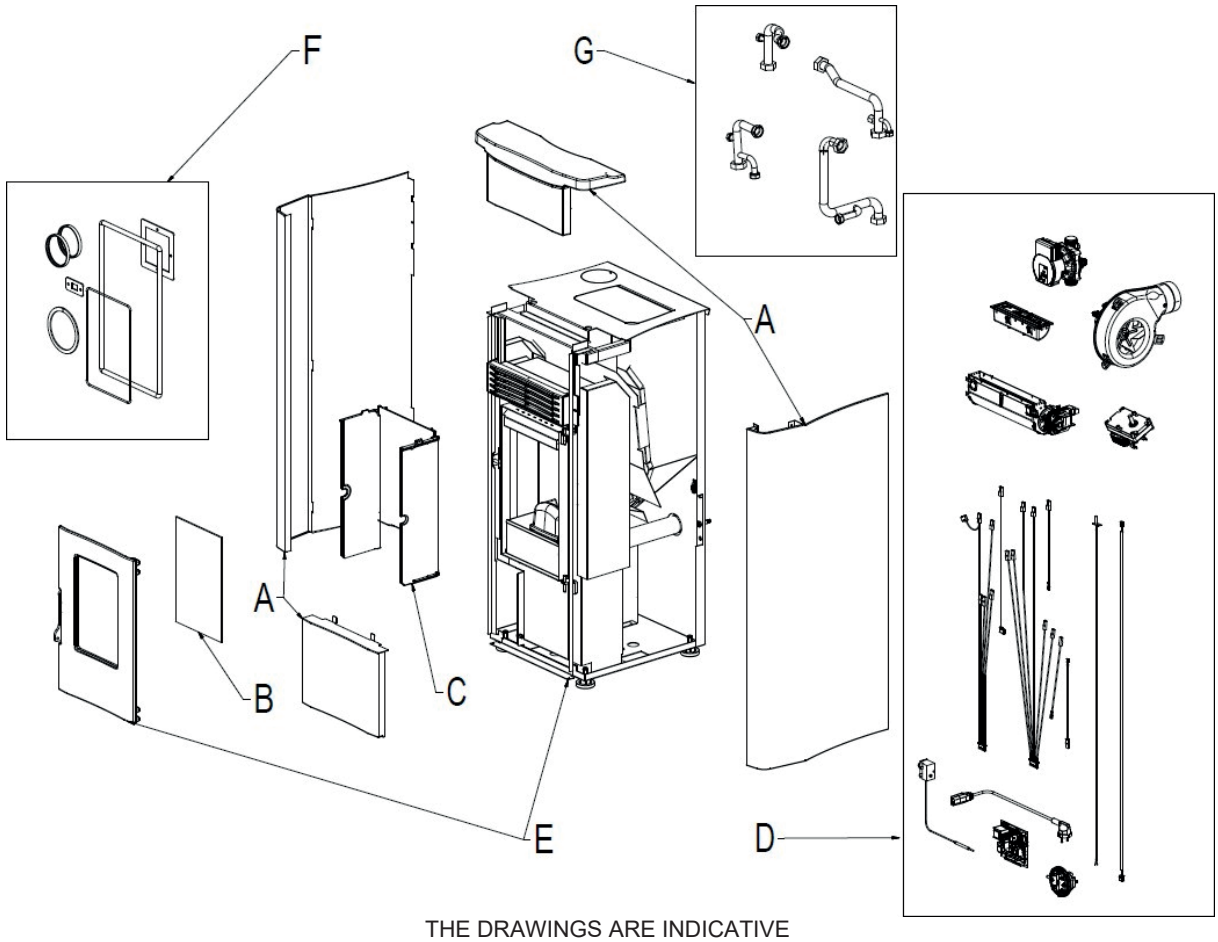
Stove status before black-out	Interruption of less than 10 seconds	Interruption of more than 10 seconds
OFF	OFF	OFF
PRE-LOAD	BLACK OUT	BLACK OUT
IGNITION	BLACK OUT	BLACK OUT
START-UP	START-UP	STAND-BY THEN RE-IGNITION
OPERATING	OPERATING	STAND-BY THEN RE-IGNITION
FINAL CLEANING	FINAL CLEANING	FINAL CLEANING
STAND-BY	STAND-BY	STAND-BY
ALARM	ALARM	ALARM
ALARM RECORD	ALARM RECORD	ALARM RECORD

TROUBLESHOOTING

SEGNALAZIONE	INCOVENIENTE	AZIONI
AL2 **broken smoke temp. probe**	when the stove can no longer read the smoke temperature	• Broken thermocouple • Detached thermocouple • Smoke temperature out of range
AL3 **hot smoke**	when the temperature of the smoke exceeds the safety threshold	• Blocked chimney • Incorrect installation • Stove clogged • Too many pellets loaded, check pellet feed regulation (TAC) **NOTE:** the “hot smoke” message appears when the first alarm threshold of 250° is exceeded, triggering automatic stove regulation; only when the temperature of 270° is reached does the stove go into alarm mode and switches itself off.
AL4 **fan fault**	when the motor of the smoke extractor fan breaks down	• Smoke extraction motor blocked • Revolution counter breakdown • Smoke motor breakdown • Smoke motor thermostat triggered
AL5 **ignition failure**	when the smoke temperature does not reach the minimum threshold during the ignition phase	• Probable spark plug failure • Dirty crucible or too many pellets • The pellets are finished • Check the pellet safety thermostat (automatic reset) • Blocked chimney
AL6 **no pellets**	when the pellets are finished	• There are no more pellets in the hopper • A gear motor failure • The screw/pellet duct is blocked • Too few pellets loaded, check pellet feed regulation
AL7 **thermal safety**	when the safety thermostat, situated in contact with the hopper, is triggered by the overheating of the pellet hopper	• Pellet overloading
AL8 **no depression**	when there is insufficient draught in the cold air aspiration pipe	• Flue blocked • Blocked cold air pipe • Pressure switch failure • Silicone tube broken or clogged • Door not properly closed

DISPOSAL

PELLET PRODUCTS



THE DRAWINGS ARE INDICATIVE

DISPOSAL OF THE COMPONENTS OF THE APPLIANCE AT THE END OF ITS SERVICE LIFE

The following table lists the components of the appliance and the indications for correct separation and disposal.

In particular, the electrical and electronic components must be separated and disposed of at the centres authorised for this activity, according to the WEEE directive 2012/19/EU.

A. EXTERNAL COATING If present, dispose of separately according to its material: - Metal - Glass - Tiles or ceramics	C. INTERNAL LINING If present, dispose of separately according to its material: - Metal - Refractory materials

DISPOSAL

- Stone	- Insulating panels - Vermiculite - Insulators, vermiculite and refractory materials that have come into contact with the flame or exhaust gases (dispose of in mixed waste)
B. DOOR GLASS If present, dispose of separately according to its material: - Glass ceramic (fire door): dispose of in aggregates or mixed waste - Tempered glass (oven door): dispose of in the glass	D. ELECTRICAL AND ELECTRONIC COMPONENTS Wiring, motors, fans, circulators, displays, sensors, ignition plugs, electronic boards. Dispose of separately at authorised centres, as indicated in the WEEE directive 2012/19/EU
E. METALLIC STRUCTURE Dispose of separately in metal	G. HYDRAULIC COMPONENTS Pipes, fittings, expansion tank, valves. If present, dispose of them separately according to their material: - Copper - Brass - Steel Other materials
F. NON-RECYCLABLE COMPONENTS E.g.: Gaskets, rubber, silicone or pitch fibre pipes. Dispose of in mixed waste	

#iosonoilfuoco www.edilkamin.com

The names of Edilkamin&Co. offi cial, authorised technical assistance centres (CAT) and distributors are available ONLY a www.edilkamin.com

cod. 942475-GB 05.23/ DIGITALE