# THERMOROSSI ©

# BOSKY SQUARE 30 – F30 BOSKY SQUARE 30 – F30 (READY TO START)

ITA - MANUALE DI INSTALLAZIONE, USO E MANUTENZIONE. FRA - MANUEL D'INSTALLATION, D'UTILISATION ET D'ENTRETIEN. ENG - INSTALLATION, USE AND MAINTENANCE GUIDE. DEU - INSTALLATIONS-, BETRIEBS- UND WARTUNGSANLEITUNG. ESP - MANUAL DE INSTALACIÓN USO Y MANTENIMIENTO.



ITA - Informazioni importanti per la sicurezza ed il corretto funzionamento.

FRA - À lire impérativement ! Informations importantes pour la sécurité et le bon fonctionnement.

ENG - Must read! Important information for safety and correct operation.

DEU - Unbedingt lesen! Wichtige Informationen zur Sicherheit und zum sicheren Betrieb.

ESP - ¡Leer! Informaciones importantes para la seguridad y el correcto funcionamiento.

# BOSKY SQUARE 30 - BOSKY SQUARE F30

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# EU Declaration of Conformity (DoC) / Dichiarazione di Conformità UE (DoC)

Postal address: Company name: THERMOROSSI S.P.A. VIA GRUMOLO, N° 4

Azienda: Indirizzo:

Postcode and city: Telephone number: **36011 ARSIERO (VI)** 0445/741310 Codice postale e città: Numero di telefono:

E-mail address: INFO@THERMOROSSI.IT Indirizzo e-mail:

declare that the DoC is issued under our sole responsibility and belongs to the following product: dichiara che la dichiarazione viene rilasciata sotto la propria responsabilità e si riferisce al seguente prodotto:

Apparatus model / Product: WOOD STOVE Trademark: **THERMOROSSI** 

**Descrizione prodotto:** STUFA A LEGNA Marchio:

Models: **BOSKY SQUARE 30** Modelli: **BOSKY SQUARE F30** 

> The object of the declaration described above is in conformity with the relevant Union harmonisation legislation: L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

Direttiva 2014/30/UE, EMCD

Direttiva 2014/35/UE, LVD

Direttiva 2011/65/UE, RoHS

2014/30/EU Directive, EMCD

2014/35/EU Directive, LVD

2011/65/EU Directive, RoHS

Sono state applicate le seguenti norme armonizzate e/o specifiche tecniche:

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

EN 55014-1 EN 60335-1 EN 55014-2 EN 60335-2-102 EN 50581 EN 61000-3-2

EN 62233

EN 61000-3-3

EN 13240 tests carried out by the notified laboratory Kiwa Cermet Italia S.p.a (N.B. 0476) √Viale Venezia, 45 31020 San

Vendemiano (TV).

THERMOROSSI S. CA. Arsiero, 04/03/2021 Firma/Sign.



# **BOSKY SQUARE 30 – BOSKY SQUARE F30**

1	THERMOROSSI **  Fire Lovers	DICHIARAZIONE DI PRESTAZIONE IN AC DECLARATION OF PERFORMANCE A				N° 40
1	Unique identification code		2	Mode	llo, lotto, serie ai sensi dell'articolo 11, paragr l, batch or serial number required under Artic	
3	Intended uses of the constr Apparecchio per il riscalo	a costruzione, conformemente alla relativa specifica t nuction product, in accordance with the applicable ha damento domestico, con acqua, alimentato a ceppi	ırmoni: i di leg	sed tec	hnical specification: sidential space heating appliance with water	
4	Name and contact address THERMOROSSI S.P.A.	o del fabbricante ai sensi dell'articolo 11, paragrafo 5: of the manufacturer as required pursuant Article 11( Via Grumolo, n° 4 36011 Arsiero (VI) erifica della costanza della prestazione del prodotto de	( 5):	5	Nome e indirizzo del mandatario ai sensi de Name and address of the agent as required	
6		verification of constancy of performance of the const		n produ	ct as set out in Annex V: System 3	
7	Laboratorio notificato: Not KIWA CERMET ITALI	3		Nume 30035	ro del rapporto di prova secondo il sistema 3 11	/ Test report number based on System 3:
	Specifica tecnica armonizz	Prestazione di tata/Harmonized technical specification:	ichiara	ata / Do	eclared performance EN 132	10-2001
	Caratteristiche Essenziali /	Essential characteristics			Prestazione /	
	Reazione al fuoco / Reaction	•			Minime distanze / Minimum distances (m	
	Distanza da materiali comb Distance to combustible ma	aterials			posteriore/rear = 300 lati/sides = 300 soffitto/ceiling = - pavimento / floo	frontale $/$ front = <b>800</b>
	Rischio di fuoriuscita di br Temperatura superficiale/S	raci incandescenti / Risk of burning fuel falling out			Conforme /Compliant Conforme /Compliant	
0	Sicurezza elettrica / Electri				-	
8	Pulizia / Cleanability				Conforme /Compliant	
	•	a combustione /Emission of combustion products			CO = 891 mg/m <sup>3</sup> a potenza termica nom	inale / CO at Nominal heat output
		cizio / <i>Maximum operating pressure</i> za termica nominale / <i>Flue gas temperature at nomin</i> a	al heat	outpui	2.5 bar T 178 °C	
		sopportare il camino) / Mechanical resistance (to ca			NPD {No Determined Performance}	
		biente / Room heating output			17.90 kW 7.66 kW 10.24 kW	
	Rendimento / Efficiency	acqua / Water heating output			88.19 % Alla potenza termica nominale	Nominal heat output
9	The performance of the pro	iarazione di prestazione sotto la responsabilità esclusi oduct identified in points 1 and 2 is in conformity with nance is issued under the sole responsibility of the management of the managem	h the d anufac	leclared turer id	l performance in point 8.  lentified in point 4.  ON IL REGOLAMENTO (UE) 305/2011	THERMODOSSIS. N. Un de ministratore de la companya
1	Fire Lovers  Codice di identificazione u	Inico del prodotto-tipo: BOSKY SQUARE F30			TO REGULATION (EU) 305/2011  llo, lotto, serie ai sensi dell'articolo 11, paragr	
1	Unique identification code Usi previsti del prodotto da	of the product type: a costruzione, conformemente alla relativa specifica t	~	Mode armon	l, batch or serial number required under Arti izzata:	cle 11(4):
3		ruction product, in accordance with the applicable ha damento domestico, con acqua, alimentato a ceppi				fired by wood logs
		o del fabbricante ai sensi dell'articolo 11, paragrafo 5:		,na / A	Nome e indirizzo del mandatario ai sensi de	
4	THERMOROSSI S.P.A.	of the manufacturer as required pursuant Article 11( Via Grumolo, n° 4 36011 Arsiero (Vicenza)		5	Name and address of the agent as required	pursuant Article 12( 2):
6	System of assessment and	erifica della costanza della prestazione del prodotto di verification of constancy of performance of the const		n produ	ct as set out in Annex V: System 3	
7	Laboratorio notificato: Not KIWA CERMET ITALI	Å S.p.A. N° 0476		30035		/ Test report number based on System 3:
	Specifica tecnica armoniza	Prestazione di tata/Harmonized technical specification:	ichiara	ata / Do	eclared performance EN 132	40-2001
	Caratteristiche Essenziali /	Essential characteristics			Prestazione /	
	Reazione al fuoco / Reaction	on to fire			Minime distanze / Minimum distances (m	
	Distanza da materiali comb Distance to combustible ma				posteriore/rear = 300 lati/sides = 300 soffitto/ceiling = - pavimento / floor	frontale / front = <b>800</b>
		aci incandescenti / Risk of burning fuel falling out			Conforme /Compliant	
	Temperatura superficiale/S Sicurezza elettrica / Electrica				Conforme /Compliant	
8	Pulizia / Cleanability	eeu sagery			Conforme /Compliant	
		combustione /Emission of combustion products			CO = 891 mg/m <sup>3</sup> a potenza termica nominale / CO at Nominal heat output	
		cizio / Maximum operating pressure za termica nominale / Flue gas temperature at nomina	al boat	outre	2.5 bar T 178 °C	
		sopportare il camino) / Mechanical resistance (to ca		ошри		
	chimney)	/ Nominal heat output			NPD {No Determined Performance}	
	Potenza termica nominale Potenza termica resa in am	Nominal heat output ibiente / Room heating output			17.90 kW 7.66 kW	
	Potenza termica ceduta all'	acqua / Water heating output			10.24 kW	Naminal Land autom
9	Si rilascia la presente dichi The performance of the pro	o di cui ai punti 1 e 2 è conforme alla prestazione dicliarazione di prestazione sotto la responsabilità esclusi oduct identified in points 1 and 2 is in conformity with nance is issued under the sole responsibility of the mance is issued under the sole responsibility of the mance is issued under the sole responsibility of the manufacture.	iva del h the d	fabbrio leclareo	eante di cui al punto 4.  Al performance in point 8.	Firma/Signature: THERMIGNOSSIS. V.



# **ENG**

# **BOSKY SQUARE 30 – BOSKY SQUARE F30**

IT – MARCHIO EN – BRAND FR – MARQUE NL – MERK DE – MARKE ES – MARCA	THERMOR	OSSI S.P.A.
	BOSKY SQUARE 30	BOSKY SQUARE F30
	<b>A</b> +	<b>A</b> +
	7,7 kW	7,7 kW
	10,2 kW	10,2 kW
	118	118
ALE UTPUT OMINALE ELEISTUNG ÍFICA NOMINAL	88,2%	88,2%
TE T	-	-
	EN – BRAND FR – MARQUE NL – MERK DE – MARKE ES – MARCA  ALE UTPUT OMINALE ELEISTUNG FICA NOMINAL	### THERMOR    FR - MARQUE   NL - MERK   DE - MARKE   ES - MARCA      BOSKY SQUARE   30

EN – ALWAYS FOLLOW THE INSTRUCTIONS PROVIDED IN THE OPERATING AND MAINTENANCE MANUAL FR – RESPECTER TOUTES LES INSTRUCTIONS CITÉES DANS LA NOTICE D'INSTALLATION, UTILISATION ET ENTRETIEN NL – VOLG ALTIJD DE INSTRUCTIES VAN DE INSTALLATIE, GERUIKERSHANDLEIDING EN DE ONDERHOUDSVOORSCHRIFTEN DE – ERFÜLLEN DIE ANWEISUNGEN DER INSTALLATION, NUTZUNG UND WARTUNG, DIE IN DER ANLEITUNGSBUCH SIND ES – RESPECTAR LAS INSTRUCCIONES REPORTADAS EN EL MANUAL DE UTILIZACIÓN Y MANTENIMIENTO

# **BOSKY SQUARE 30 - BOSKY SQUARE F30**

## 1 - INTRODUCTION

#### 1.1 SAFETY GUIDELINES

This installation, use and maintenance manual is an integral and essential part of the product and must be kept by the user. Before commencing with the installation, use and maintenance of the product, carefully read this guide. All local, national and European regulations regarding the installation and use of the appliance must be met. The Manufacturer recommends carrying out all the maintenance operations described in this manual.

This appliance must only be used as intended by the manufacturer. Any other use is considered incorrect and therefore hazardous; consequently, the user shall be totally liable for the product if used improperly. Installation, maintenance and repairs must be carried out by professionally qualified personnel, certified according to Decree no. 37 of 22 January 2008 and in compliance with current regulations. In case of repairs only original spare parts supplied by the manufacturer must be used. Incorrect installation or poor maintenance can injure or damage people, animals or things; in this case the manufacturer shall be relieved of all responsibility. Any repairs or actions carried out on any systems, components or internal parts of the appliance, or on any of the accessories supplied with it, that are not specifically authorised by Thermorossi S.p.A, will automatically void the warranty and the manufacturer's responsibility, pursuant to Italian Decree no. 224 of the President of the Republic of 24/05/1988, art. 6/b. It is recommended to keep this manual in a safe place that is easily accessible to all users. If the manual is lost or deteriorated contact the manufacturer for a replacement copy. If the appliance is sold or transferred to another user ensure that the manual is handed over with it. The images and figures featured in this manual are purely illustrative and may differ from the actual product. Furthermore, Thermorossi reserves the right to apply changes to the content of this manual anytime and without notice.

<u>Thermorossi S.p.A. retains copyright on this manual. These instructions may not be reproduced or communicated to third parties or used in any other way without the necessary authorisation.</u>

#### 1.2 SAFETY STANDARDS



#### PERSONAL INJURY

This safety symbol identifies important messages throughout the manual. Read the information marked by this symbol carefully as non-observance of this message can cause serious injury to persons using the appliance.



#### **DAMAGE TO PROPERTY**

This safety symbol identifies messages or instructions that are fundamental for the appliance and system to function well. To avoid serious damage to the appliance adhere strictly to these instructions.



#### INFORMATION

This symbol indicates important instructions for good functioning of the appliance. If this information is not correctly observed, the performance of the appliance will not be satisfactory.

#### 1.3 RECOMMENDATIONS



Read this entire use and maintenance manual carefully before using the appliance as familiarity with the information and instructions contained in it are essential for the correct use of the appliance.

No responsibility will be accepted for damages, even to third parties, if the instructions for installation, use and maintenance of the appliance are not followed scrupulously. Modifications made to the appliance by the user or on his behalf, must be considered to be under his complete responsibility. The user is responsible for all the operations required for the maintenance of the appliance before and during its use.



Should you notice an excessive stagnation of flue gas in the combustion chamber, move away from the appliance immediately. In particular move away from the glass door of the combustion chamber. The excessive concentration of unburned gases could create an explosion that could break the glass. Do not open the loading door for any reason whatsoever and do not approach the product until the flame has died down. Contact a technical service centre to determine the causes. Do not turn on the appliance for any reason whatsoever following an event such as this.

#### 1.4 GENERAL GUIDELINES



Attention: the appliance must be connected to a system provided with a PE conductor (in compliance with the specifications concerning low-voltage equipment). Before installing the appliance check the efficiency of the earth circuit of the power supply system.

Attention: the cable section must in any case be no less than 1.5 mm<sup>2</sup>. The appliance requires powering with a voltage of 230 V and 50 Hz. Position the appliance so that the electric power outlet in the room is easily accessible. Ensure that a suitable differential switch is installed upstream from the equipment.

The product must not be used by children under the age of 8 years, by persons with physical, mental or sensorial impairments, or by persons who are not familiar with the instructions for use and maintenance of the product (the instructions are found in this booklet). Children must not play with the appliance.

ATTENTION: before each use make sure that the grate and the ash pan are perfectly clean and check that the firebox door is firmly closed and airtight.





#### **BOSKY SQUARE 30 – BOSKY SQUARE F30**

ATTENTION: it is strictly forbidden to open the door while the flame is still burning. During operation, the smoke exhaust pipes, door, handles and some parts of the appliance may reach extremely high temperatures: be careful not to touch them and also educate children to be aware of said risks. Do not expose your body to hot air for long, do not overheat the room in which the appliance is installed, as these actions could cause health problems. Do not expose plants or animals directly to the hot air flow as this could have noxious effects on them. It is prohibited to use any liquids or gases such as alcohol, petrol, etc. to light or rekindle the fire, use only thin wood. Do not place non-heat resistant or inflammable or combustible objects in the vicinity of the appliance: keep them at a suitable distance. Do not place wet clothing to dry on the appliance. When using a clothes horse, keep at a suitable distance. It is strictly prohibited to disconnect the appliance from the electrical power mains while it is in operation.



Caution: do not wet the appliance and do not touch the electrical parts with wet hands. Never vacuum hot ash: this could damage the vacuum device. All the cleaning operations described in this manual must be carried out when the appliance is cold and shut off.



#### Attention! Warning for Swiss users

Refer to the local cantonal regulations imposed by the Fire Department (Mandatory signalling and safety distances) and the Note concerning installation of heaters issued by the Association of Cantonal Fire Agencies (VKF - AEAI).



ATTENTION: it is mandatory to earth the appliance. If this instruction is not observed serious damage, which is not covered by warranty, will result to the body of the appliance. Have an electrician check the earthing. There must be no electric potential (Volt) between the earth of the generator and the actual earth of the system.

#### 1.5 TRANSPORTATION AND STORAGE

#### TRANSPORTATION AND HANDLING

The appliance body must always be handled exclusively by means of trolleys. Take special care to protect the glass and all the fragile parts from mechanical impact which could damage them and their correct functioning.

#### **STORAGE**

The appliance must be stored in a humid-free environment and sheltered from the weather; avoid placing the appliance directly on the ground. The Company denies all responsibility for damage caused to wood floors or floors made from any other material. It is inadvisable to store the product for long periods of time.

#### 1.6 GUIDELINES FOR CORRECT DISPOSAL OF THE PRODUCT



At the end of the product's useful life, it must be disposed of in compliance with applicable regulations and in respect of the environment, not with urban waste. The product must be consigned to designated sorted waste collection centres for the disposal of waste authorised by the local municipal councils. Correct disposal not only helps safeguard the environment but it also promotes recovery and recycling of the materials.



# 2 - TECHNICAL CHARACTERISTICS

	<b>BOSKY SQUARE 30</b>	BOSKY SQUARE F30
Height (mm)	968	968
Depth (mm)	717	717
Width (mm)	750	1,060
Weight (kg)	225	300
Ø Internal smoke outlet (mm)	150	150
Ø External smoke outlet (mm)	154	154
Minimum draught (Pa)	18	18
Maximum permitted fuel feed kg ***	4.5	4.5
Maximum hourly consumption (kg/h) ***	4,7	4,7
Average load duration (Min) **	63	63
Firebox power (kW) **	20.30	20.30
Rated power (kW) **	17.90	17.90
Output to water (kW) **	10.24	10.24
Output to the room (kW) **	7.66	7.66
Efficiency (%) **	88.19	88.19
CO emissions (mg/m³ at 13% O <sub>2</sub> ) **	891	891
Heatable volume (m³) *	480	480
Average smoke temperature (°C) **	178	178
Smoke flow rate (g/s) **	12,6	12,6
Water content (I)	29	29
Minimum working pressure	1.0	1.0
Maximum working pressure	2.5	2.5
Max delivery water temperature (°C)	80	80
Min water return temperature (°C)	55	55
Firebox feed opening dimensions (mm) (LxH)	220 X 280	220 X 280
Firebox dimensions (mm) (LxHxD)	290 x 500 x 440	290 x 500 x 440
Oven dimensions (mm) (LxHxD)	-	340 X 300 X 500
Power supply voltage and frequency (V – Hz)	230 – 50	230 – 50

<sup>\*</sup> IMPORTANT: It is important to take into consideration the fact that the heatable volume is greatly influenced by the insulation of the house (energy class of the building) and by the position of the appliance in the planimetry of the house, therefore the indicated values may vary, even significantly.

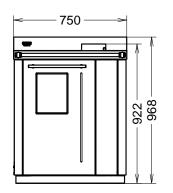


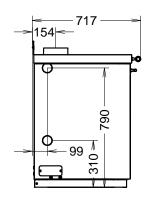
<sup>\*\*</sup> ATTENTION: The indicated values were obtained using beechwood logs (4 logs) with thermal value less than or equal to 15,429 kJ/kg and moisture content less than 15%. The use of poorer quality firewood than that specified results in lower yield and lower efficiency, and produces more ash. Moreover the glass on the feed door will become dirtier sooner.

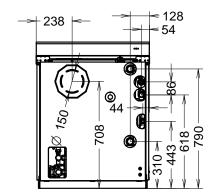
<sup>\*\*\*</sup> It is strictly prohibited to load a greater quantity of fuel than that specified in the table. The warranty will not cover damages caused by the prolonged exposure of the appliance to temperatures that are too high.

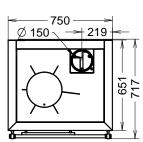
# 2.1 DIMENSIONS

# **BOSKY SQUARE 30**

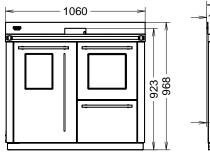


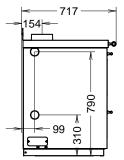


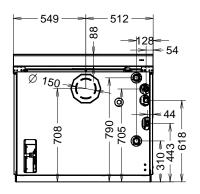


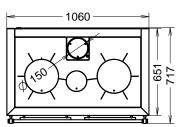


#### **BOSKY SQUARE F30**









# 3 - GENERAL DESCRIPTION

#### 3.1 THE FUEL

The fuel for this appliance is ordinary wood billets with a moisture content between 10% and 20% and with a thermal value of 13,000 to 15,429 Kcal/kg. We recommend using beech or common hornbeam. If using wood with a lower moisture content or with a higher thermal value, the heat produced by the stove will be greater.

The awareness and use of the right fuel are important aspects to be observed in order to ensure correct operation and long service life of the appliance. To this end we recommend using only dry, well-seasoned wood. We recommend against using wet wood or wood that has been seasoned for less than 18/20 months, as this could be the cause of malfunctions and the formation of tarry deposits that could permanently blacken the walls of the combustion chamber.

We recommend using logs with a length of 250 mm (max recommended section Ø 80 mm) and loading a maximum of 3-4 logs.



#### **MAXIMUM PERMITTED FUEL FEED: 4.5 kg**

THE FUEL FEED INTERVALS MUST NOT BE LESS THAN 1 HR. LOADING A LARGER QUANTITY OF FUEL OR LOADING SEVERAL TIMES IN AN HOUR EXPOSES THE APPLIANCE TO VERY HIGH TEMPERATURES. FOR THIS REASON, THE WARRANTY WILL NOT COVER ANY DAMAGE CAUSED BY PROLONGED EXPOSURE OF THE APPLIANCE TO THESE TEMPERATURES.



The use of fuel that does not comply with the above specifications or the use of different substances or fuels will immediately void the appliance warranty. The appliance must not be used as an incinerator, and it is prohibited to use any liquid or gas fuel. Do not overload the stove with excessive quantities of fuel; adhere strictly to the maximum declared consumption.

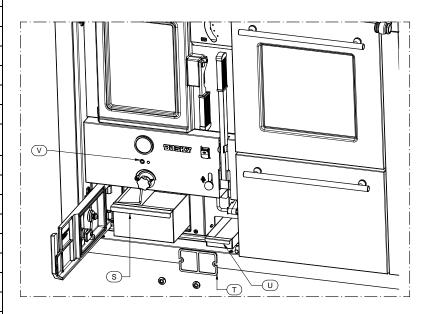


It is strictly prohibited to store combustible or inflammable material in the compartment under the oven. The temperature inside can reach very high levels.

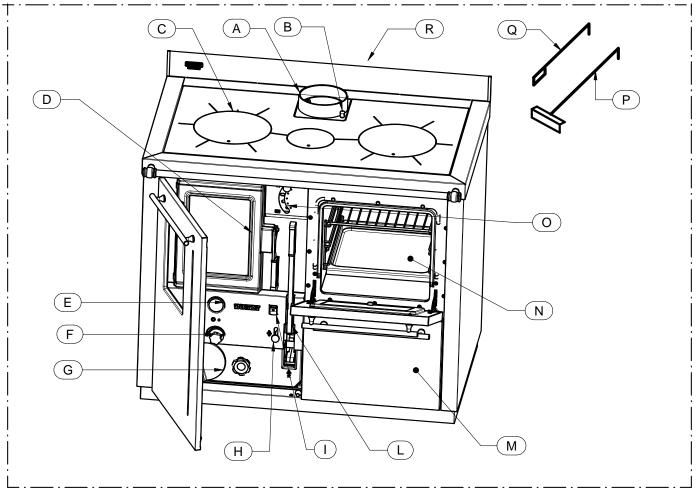
#### 3.2 MAIN COMPONENTS

#### **KEY**

Α	Top smoke exhaust
В	Starter
С	Cooktop
D	Feed door
Е	Thermometer – Water pressure gauge
F	Primary air control
G	Adjustment ring for rekindling the fire
Н	Grate adjustment handle release mechanism
I	Oven light switch (only F30)
L	Grate height adjustment handle
М	Under-oven compartment (only F30)
Ν	Oven (only F30)
0	Smoke deviator flap (only F30)
Р	Scraper
Q	Riddling tool
R	Rear smoke exhaust
S	Main ash pan
Т	Inspection cover
U	Secondary ash pan
V	Pump active indicator light







#### **B** - Starter

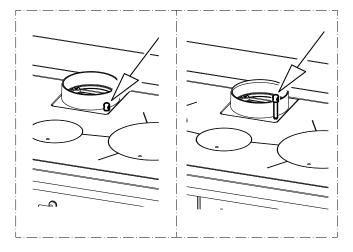
This device creates a direct bypass for the flue gases which facilitates both the lighting and refuelling operations. The riddling tool provided must be used when activating it and only when lighting or stoking the fire.



# IT IS STRICTLY PROHIBITED TO LEAVE THE STARTER OPEN DURING NORMAL OPERATION.

Leaving the starter open during normal operation results in higher fuel consumption than the declared quantity, a considerable drop in efficiency and exposure of the appliance to extremely high temperatures. For this reason, the warranty does not cover any direct or indirect damages caused by prolonged exposure of the appliance to these temperatures.

ATTENTION: The temperature of the starter is very hot while the appliance is operating, so take care not to touch it. The riddling tool provided must be used when handling it.



Moving the Starter upwards activates the direct bypass for the flue gases, whereas on the contrary, pushing it downwards activates the normal flue gas path.

# F - Primary air control

It is used to regulate the primary air inflow. The primary air passes through the grate of the firebox and fuels the combustion to determine its power and speed. Turn the control to the right to reduce the air inflow. On the contrary, turn the control to the left to increase the air inflow. To prevent or limit condensation, it is recommended to keep the control near the pump active indicator light.



## BOSKY SQUARE 30 - BOSKY SQUARE E30

#### 4 - INSTALLATION

#### 4.1 APPLIANCE LOCATION



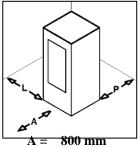
Follow the general guidelines set out in paragraph 1.1 to the letter. Be aware that the flooring of the installation site must be capable of withstanding the weight of the appliance and the water contained in it. If this requirement is not met, it is obligatory to adopt countermeasures (for example, load distribution plate ...).



ATTENTION: The room where the appliance is installed must be well ventilated and free from humidity and salty air. A high level of humidity or saltiness in the room can lead to the onset of rust or corrosion which will not be covered by warranty. The appliance must be positioned at a minimum safe distance from walls and furnishings. If inflammable materials are located in the vicinity of the appliance (e.g.: matchboarding, furniture, curtains, pictures and paintings, sofas) it is mandatory to comply with the minimum distances illustrated on the side.



If the flooring is made of wood or any other combustible material, it is mandatory to install a fireproof floor protector plate between the appliance and the floor. Installation in the vicinity of heat-sensitive materials is only permitted if suitable insulating and fireproof protection is placed between the object and the appliance (ref. Uni 10683). Failure to observe this instruction will immediately invalidate the warranty.



L = 300 mm P = 300 mm

The installer must issue a certificate of conformity for the installation which includes the design plans and the following documents:

- a) Report containing the type of materials utilised.
- b) Project as defined in Article 5 of Ministerial Decree n° 37 22 January 2008.
- c) References to existing partial or previous declarations of conformity (e.g., flue outlet).
- d) Copy of the certificate of recognition of the professional technical qualifications.



These documents must, by law, be kept together with the installation, use and maintenance manual. The customer is responsible for verifying, directly or indirectly, that the installation has been carried out to perfection in accordance with relevant regulations in force. Do not install the appliance in unsuitable rooms such as bedrooms, bathrooms, garages and/or lock-ups. It is forbidden to place the appliance in environments with an explosive atmosphere.



ATTENTION, the appliance is not simply a household appliance: if the instructions set out in this manual are not followed and/or if installation of the appliance is not executed perfectly and/or the provisions in force are not strictly complied with, dangerous conditions could arise for both objects and persons. It is the user's responsibility to verify the presence, in the room, of a vent necessary for supplying oxygen to the appliance. It is strictly prohibited to install the appliance as inset or next to furniture.

#### 4.2 UNPACKING THE APPLIANCE

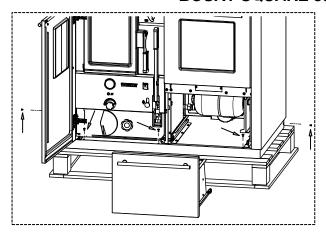
The appliance is delivered packaged on a pallet; use lift trucks only to move it. To remove the appliance from the pallet proceed as follows:

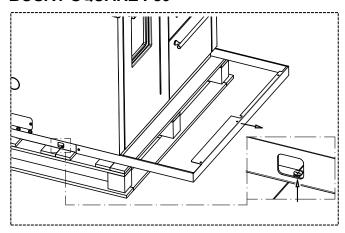
- Remove the cover and the wooden side panels secured to the pallet.
- For versions with an oven, pull out the compartment located under the oven and remove it.
- Remove the bottom frame by undoing the 3 screws at the front and the 2 on the sides, as indicated in the figures below.
- Remove the two screws on the sides that secure the appliance to the pallet, as indicated in the figures below.
- Remove the appliance from the pallet with the aid of a trolley. Slip the bottom of the trolley under the back part of the appliance and tip the trolley back onto its wheels. Given the weight of the appliance we recommend that this operation be carried out by two people. Take care when lifting the appliance as the centre of gravity of the weight is concentrated at the front.
- Check that all the movable components are in place; also remove any labels, self-adhesive materials or protective film from the cooktop.
- Position the appliance and re-mount the bottom frame.



#### **ENG**

# **BOSKY SQUARE 30 – BOSKY SQUARE F30**





#### 4.3 CONNECTION TO THE FLUE OUTLET

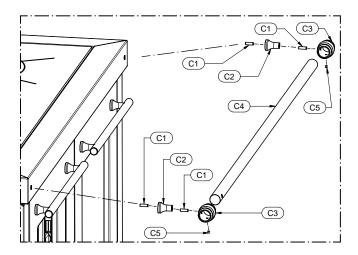


Connection of the appliance to the flue outlet must be carried out in strict compliance with the instructions contained in this booklet and particularly with those in the dedicated chapter.

#### 4.4 INSTALLATION OF THE HANDRAIL

To mount the front handrail proceed as follows:

- Tighten the screws (C1) in the holes provided in the front section of the appliance.
- Fix the spacers (C2) to the screws (C1) that you have just fastened.
- Fasten the screws (C1) to the spacers (C2).
- Fasten the bushings (C3) to the screws (C1).
- Next align the bushings (C3) and insert the handrail (C4).
- Secure the assembly with the grub screws (C5).

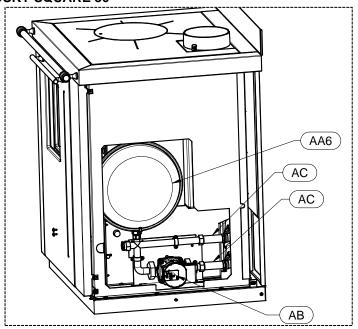


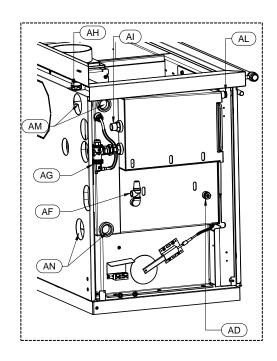


# **5 – PLUMBING SYSTEM CONNECTIONS AND DIAGRAMS**

#### **5.1 GENERATOR PLUMBING COMPONENTS**

#### **BOSKY SQUARE 30**

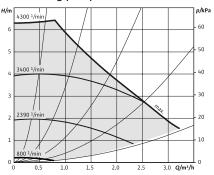


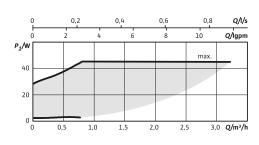


#### **KEY**

AA6	Dedicated 6-litre expansion tank for appliance protection (ONLY IN THE READY TO START VERSION)	AB	Circulating pump (ONLY IN THE READY TO START VERSION)	
AC	Gate valve (ONLY IN THE READY TO START VERSION)	AD	Pocket for pressure gauge bulb	
AF	Safety valve 3 bar ½" F (ONLY IN THE READY TO START VERSION)	AG	Thermal relief valve inlet – safety heat exchanger inlet 3/4" F (ONLY IN THE READY TO START VERSION)	
АН	Automatic relief valve	AI	Thermal relief valve outlet – safety heat exchanger outlet 3/4" M (ONLY IN THE READY TO START VERSION)	
AL	Pocket for thermometer bulb	AM	Delivery tube system 1¼" F	
AN	System return fitting 1¼" F			

The circulating pump installed as standard ONLY IN THE READY TO START VERSION has the following characteristics:



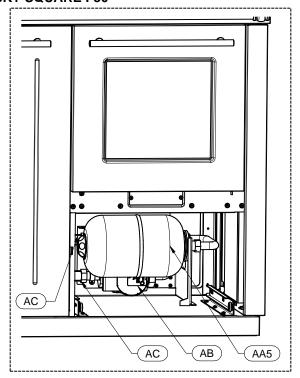


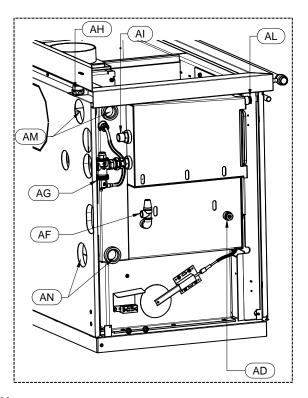
The thermal relief valve installed as standard **ONLY IN THE READY TO START VERSION** has the following technical characteristics:

- Double safety sensor
- Maximum working pressure: 10 bar
- Minimum working pressure: 1.5 bar
- Temperature range: 5÷110°C
- Calibration temperature 98°C
- Discharge capacity with  $\Delta p = 1$  bar and T=110°C: 3000 l/h
- Capillary tube length: 130 mm
- Certified EN 14597



# **BOSKY SQUARE F30**





# **KEY**

AA5	Dedicated 5-litre expansion tank for appliance protection (ONLY IN THE READY TO START VERSION)	AB	Circulating pump (ONLY IN THE READY TO START VERSION)
AC	Gate valve (ONLY IN THE READY TO START VERSION)	AD	Pocket for pressure gauge bulb
AF	Safety valve 3 bar ½" F (ONLY IN THE READY TO START VERSION)	AG	Thermal relief valve inlet – safety heat exchanger inlet 3/4" F (ONLY IN THE READY TO START VERSION)
АН	Automatic relief valve	AI	Thermal relief valve outlet – safety heat exchanger outlet 3/4" M (ONLY IN THE READY TO START VERSION)
AL	Pocket for thermometer bulb	AM	Delivery tube system 1¼" F
AN	System return fitting 11/4" F		

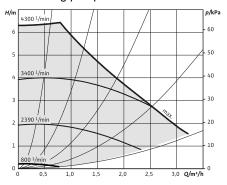


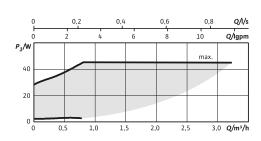
# ENG

# Installation, use and maintenance guide

## **BOSKY SQUARE 30 – BOSKY SQUARE F30**

The circulating pump installed as standard **ONLY IN THE READY TO START VERSION** has the following characteristics:





The thermal relief valve installed as standard ONLY IN THE READY TO START VERSION has the following technical characteristics:

- Double safety sensor
- Maximum working pressure: 10 bar
- Minimum working pressure: 1.5 bar
- Temperature range: 5÷110°C
- Calibration temperature 98°C
- Discharge capacity with  $\Delta p = 1$  bar and T=110°C: 3000 l/h
- Capillary tube length: 130 mm
- Certified EN 14597

#### 5.2 GUIDELINES FOR THE HYDRAULIC SYSTEM



The hydraulic system must be installed by qualified personnel who are familiar with the standards mentioned above and who have the appropriate professional requirements to release the declaration of conformance in accordance with Ministerial Decree n° 37 of 22 January 2008. The system must be suitably sized in relation to the power of the generator.



ATTENTION: it is mandatory to earth the generator. If this instruction is not observed serious damage, which is not covered by warranty, will result to the body of the appliance. Have a skilled electrician check the earthing. There must be no electric potential (Volt) between the generator earth and the plant's real earth (earth plate). To prevent electrochemical corrosion of the appliance body do not use galvanised pipes and fittings. Other materials must be earthed with special earthing cables in order to obtain a unipotential earthing system.



ATTENTION: IT IS MANDATORY TO PROVIDE A CONNECTION BETWEEN THE SAFETY VALVE AND A DRAIN, IN ORDER TO PREVENT DAMAGE TO THINGS OR PERSONAL INJURY IF THE VALVE SHOULD ACTIVATE.



ATTENTION: THE CONNECTION BETWEEN THE WATER MAIN AND THE THERMAL RELIEF VALVE MUST BE FREE FROM OBSTRUCTIONS. THE PRESSURE UPSTREAM FROM THE VALVE MUST ALWAYS BE AT LEAST 1.5 BAR.



<u>ATTENTION: THE HEAT EXCHANGER MUST NOT BE USED FOR ANY PURPOSE OTHER THAN AS A SAFETY</u> **HEAT EXCHANGER.** 

### 5.3 FURTHER REQUIREMENTS FOR THE INSTALLATION OF A CLOSED EXPANSION TANK SYSTEM.

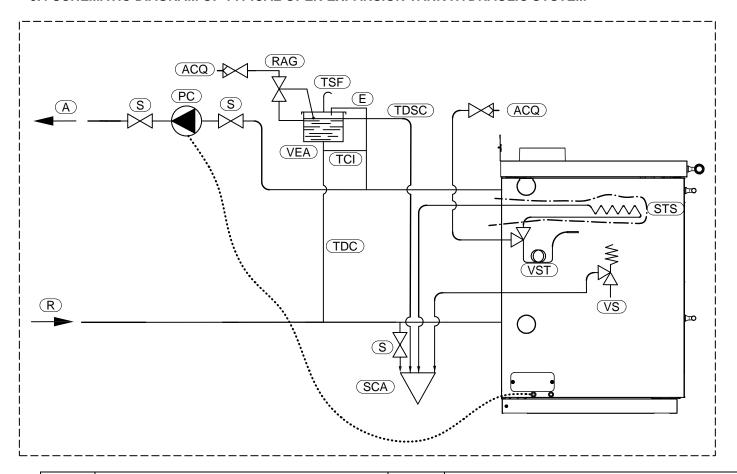
To install the system with a closed expansion tank refer to the requirements laid down in EN 10412-2:2009 for appliances with nominal heat output not exceeding 35 kW. A closed expansion tank must be series-connected to the generator as protection for the system.

The nominal volume of the closed expansion tank must be sized in relation to the total volume of the water contained in the system. Thermorossi prescribes the size of the closed expansion tank as equal to 10% of the volume of water contained in the entire system. Any bulging of the boiler body caused by an incorrectly sized expansion tank will not be covered by the warranty.

The following diagrams do not replace the above-mentioned standards to which they refer. The qualified installer must in any case be fully aware of the above standards and their amending versions.



# 5.4 SCHEMATIC DIAGRAM OF TYPICAL OPEN EXPANSION TANK HYDRAULIC SYSTEM



Α	Heating plant delivery	STS	Safety heat exchanger (standard only in the READY TO START version)
ACQ	Water main inlet	TCI	Circulation tube
E	Safety tube from the boiler to the open expansion tank	TDC	Delivery pipe
PC	System circulating pump (standard only in the READY TO START version)	TDSC	Overflow discharge pipe
R	Heating plant return	TSF	Vent pipe
RAG	Automatic make-up with float	VEA	Open expansion tank
S	On-off valve	VS	Safety valve 3 bar (standard only in the READY TO START version)
SCA	Discharge	VST	Thermal relief valve (standard only in the READY TO START version)

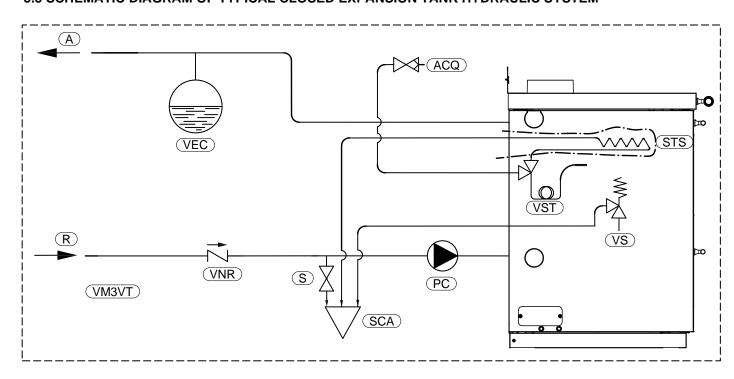


ATTENTION: it is mandatory to earth the generator. If this instruction is not observed serious damage, which is not covered by warranty, will result to the body of the appliance. Have a skilled electrician check the earthing. There must be no electric potential (Volt) between the generator earth and the system's real earth (earth plate). To prevent electrochemical corrosion of the appliance body do not use galvanised pipes and fittings. Other materials must be earthed with special earthing cables in order to obtain a unipotential earthing system.

**ATTENTION:** In the **READY TO START** version it is necessary, in this type of system, to install the circulating pump in the supply line, downstream from the safety tube. For this reason, the circulating pump must be removed from the appliance and installed as illustrated in the above diagram. The circulating pump must be replaced with a pipe nipple with seals.



# 5.5 SCHEMATIC DIAGRAM OF TYPICAL CLOSED EXPANSION TANK HYDRAULIC SYSTEM



А	Heating plant delivery	VEC	Additional closed expansion tank, sized to at least 10% of the volume of water contained in the system
ACQ	Water main inlet	VNR	Nonreturn valve
R	Heating plant return	VM3VT	Anti-condensation mixing valve
S	On-off valve	VS	Safety valve 3 bar (standard only in the READY TO START version)
SCA	Discharge	VST	Thermal relief valve (standard only in the READY TO START version)
STS	Safety heat exchanger (standard only in the READY TO START version)	PC	Circulating pump (standard only in the READY TO START version)

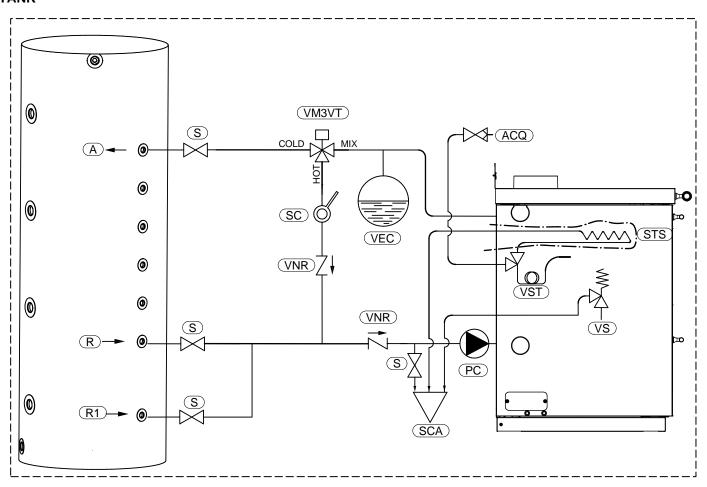


ATTENTION: it is mandatory to earth the generator. If this instruction is not observed serious damage, which is not covered by warranty, will result to the body of the appliance. Have a skilled electrician check the earthing. There must be no electric potential (Volt) between the generator earth and the system's real earth (earth plate). To prevent electrochemical corrosion of the appliance body do not use galvanised pipes and fittings. Other materials must be earthed with special earthing cables in order to obtain a unipotential earthing system.

**ATTENTION:** It is important to guarantee that the boiler return temperature always exceeds 55°C. For this reason, we recommend installing a temperature control thermometer on the return. Act on the head of the mixing valve to adjust the temperature.



# 5.6 SCHEMATIC DIAGRAM OF TYPICAL CLOSED EXPANSION TANK HYDRAULIC SYSTEM WITH PUFFER TANK



Α	Supply to the puffer tank	STS	Safety heat exchanger (standard only in the READY TO START version)
ACQ	Water main inlet	VEC	Additional closed expansion tank, sized to at least 10% of the volume of water contained in the system
PC	Circulating pump (standard only in the READY TO START version)	VNR	Nonreturn valve
R1	Return from the puffer tank	VM3VT	Anti-condensation mixing valve
S	On-off valve	VS	Safety valve 3 bar (standard only in the READY TO START version)
SC	Gate valve (throttle according to pressure drop in the system)	VST	Thermal relief valve (standard only in the READY TO START version)
SCA	Discharge	R	System return if integrated with a solar system



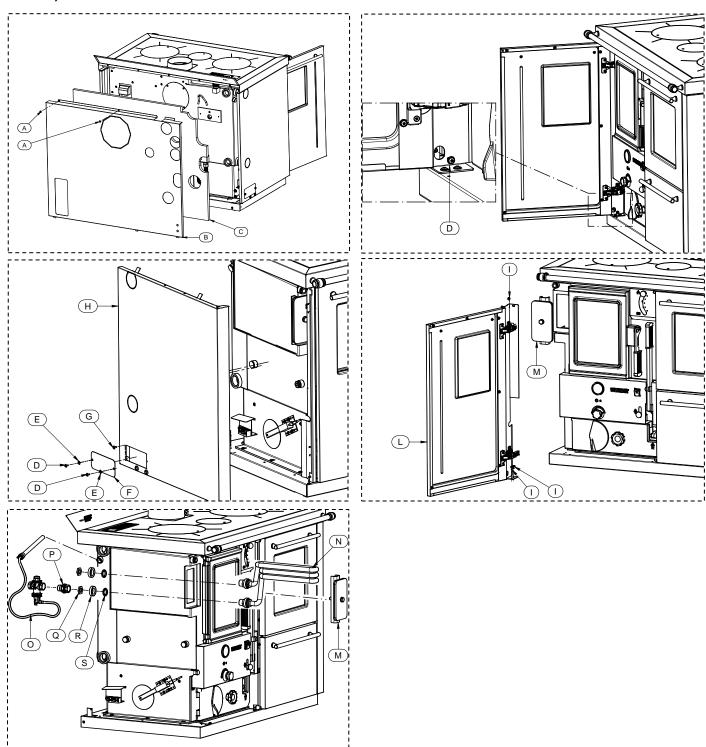
ATTENTION: it is mandatory to earth the generator. If this instruction is not observed serious damage, which is not covered by warranty, will result to the body of the appliance. Have a skilled electrician check the earthing. There must be no electric potential (Volt) between the generator earth and the system's real earth (earth plate). To prevent electrochemical corrosion of the appliance body do not use galvanised pipes and fittings. Other materials must be earthed with special earthing cables in order to obtain a unipotential earthing system.

**ATTENTION:** Anti-condensation mixing valve should be set at approx. 65°C. So, when the temperature of the boiler drops below this value, the "cold" inlet closes and prevents circulation towards the puffer tank but only between the boiler supply and return. In this way, the heat stored in the puffer tank is not dispersed to the boiler.



# **6 - ASSEMBLING THE COMPONENTS**

# 6.1 ASSEMBLY OF THE SAFETY HEAT EXCHANGER (ALREADY STANDARD IN THE READY TO START MODEL)



Install the safety heat exchanger in accordance with the following procedure:

- 1) Remove the two screws (A) so that you can remove the back (B) and the insulation panel (C), see figure 1.
- 2) Open the door and remove the screw (D), see figure 2.
- 3) Remove the two screws (D) with the two washers (E) so that you can remove the cap (F). Next remove the screw (G) and remove the side panel (H) by moving it slightly towards the front of the appliance, see figure 3.
- 4) Remove the three screws (I) so that you can remove the door (L). Next remove the cap (M) by loosening the bolt, see figure 4.
- 5) Now insert the exchanger (N), insert the two pipe connections through the holes at the back and fix them to the appliance in the following order: Gasket O-ring (S), conical washer with the concave side towards the O-ring (R), and nut (Q), see figure 5.
- 6) Replace the cap (M) and install the fitting (P), see figure 5.





# **BOSKY SQUARE 30 - BOSKY SQUARE F30**

7) Install the certified and calibrated two-way thermal relief valve (O) at the exchanger inlet, following the instructions provided by the manufacturer and install a discharge pipe.

The thermal relief valve must have the following characteristics:

- Double safety sensor for solid fuel generators (max. operating pressure): 10 bar
- Temperature range: 5÷110°C calibration temperature 98°C
- Discharge capacity with Δp = 1 bar and T=110°C: 3,000 l/h capillary tube length: 130 mm
- Certified to standard EN 14597

ATTENTION: before reassembling the remaining parts make sure that the gaskets are tight by bringing the system to pressure.

8) Reassemble the components just removed following the operations described above.



ATTENTION: A CONNECTION MUST BE MADE BETWEEN THE SAFETY VALVE AND THE OUTLET TO PREVENT DAMAGING MATERIALS SURROUNDING THE APPLIANCE WHEN THE VALVE IS ACTIVATED. ATTENTION: IF THE SAFETY HEAT EXCHANGER IS INSTALLED TO PRODUCE DOMESTIC HOT WATER, THE GUARANTEE FOR THE GENERATOR IS IMMEDIATELY VOIDED.

#### 6.2 ELECTRICAL CIRCULATING PUMP CONNECTION

It is mandatory to connect the circulating pump to the dedicated terminal block; in the **READY TO START** model the circulating pump will already be connected.

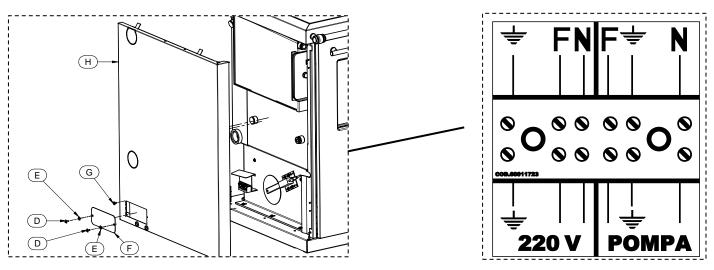
The terminal block for connecting the circulating pump is installed behind the left side panel. To remove the side panel it is necessary to remove the two screws (D) with the two washers (E) in order to remove the cap (F). Next remove the screw (G) and remove the side panel (H) by moving it slightly towards the front of the appliance, see figure below.

Lastly, connect the circulating pump to the terminals (PUMP). The circulating pump will thus activate as soon as the water in the boiler will exceed the temperature of about 60°C.

# However, in all the models it is necessary to connect the electrical power supply to the terminals (220 V) as indicated in the figure below.



This operation must be exclusively performed by qualified professional staff, as set forth by Decree no. 37 of 22nd January 2008 and applicable laws on the subject. Before performing said task, make sure the power supply cable is disconnected from the electrical power socket.





ATTENTION: it is mandatory to earth the generator. If this instruction is not observed serious damage, which is not covered by warranty, will result to the body of the generator. Have an electrician check the earthing. There must be no electric potential (Volt) between the earth of the generator and the actual earth of the system. To prevent electrochemical corrosion of the boiler body do not use galvanised pipes and fittings. Dedicated ground wires must be used to ground all other materials.



#### 7 - USE OF THE APPLIANCE



The appliance, when operating, is hot to the touch, particularly the door of the combustion chamber and the cooktop: consequently, take care not to touch any surface. Your appliance has obtained the CE marking. The product must not be used by children, by persons with physical or mental impairments, by persons who are not familiar with the instructions for use and maintenance of the product (the instructions are found in this installation, use and maintenance manual). During the heating and cooling stages the appliance is exposed to considerable thermal expansions that can cause light expansion sounds. This is a normal process and is not a defect of the product.



ATTENTION: the door must always remain shut tight when the appliance is operating. While the appliance is in operation, the smoke exhaust pipes can reach extremely high temperatures: do not touch them! It is strictly forbidden to use any type of liquid or gaseous fuel to light the appliance. Do not place non-heat resistant or inflammable or combustible objects in the vicinity of the appliance: keep them at a suitable distance. Do not place wet clothing to dry on the appliance. When using a clothes horse, keep at a suitable distance. During the first lighting, the paint on the product and the protective oil on the cooktop may give off a slight smell as they complete their drying. This is quite normal. It is recommended to ventilate the room until the paint has completely dried.

#### 7.1 LIGHTING

To startup the stove proceed as follows:

- 1) Raise the starter using the special riddling tool.
- 2) Open the primary air control as far as it will go.
- 3) Open the ring for rekindling the fire.



ATTENTION: BEFORE LIGHTING THE APPLIANCE MAKE SURE THAT THE GRATE IN THE FIREBOX IS CLEAN, THAT IS THAT THERE IS NO ASH OR COMBUSTION RESIDUES.

Open the firebox door, place some kindling in the firebox and light it with paper or any other tinder available on the market, then close the firebox door.



IT IS PROHIBITED TO USE ANY LIQUIDS OR GASES SUCH AS ALCOHOL, PETROL, ETC. TO LIGHT OR REKINDLE THE FIRE.

5) Do not leave the appliance unsupervised while the lighting process is still in progress (roughly 30 minutes to complete the process) or whenever there are abundant burning embers present.



Once the lighting sequence is completed lower the starter using the special riddling tool.



ATTENTION: THE DOOR OF THE COMBUSTION CHAMBER AND OF THE ASH PAN MUST ONLY BE OPENED FOR THE LIGHTING OPERATIONS, FOR STOKING AND FOR REMOVING RESIDUAL MATERIAL. DURING NORMAL OPERATION THE FIREBOX DOOR MUST REMAIN CLOSED AND THE STARTER LOWERED.

Leaving the starter, the adjustment ring and the lever open during normal operation results in higher fuel consumption than the declared quantity, a considerable drop in efficiency and exposure of the appliance to extremely high temperatures. For this reason, the warranty does not cover any direct or indirect damages caused by prolonged exposure of the appliance to these temperatures. ATTENTION: The temperature of the starter is very hot while the appliance is operating, so take care not to touch it. The riddling tool provided must be used when handling it.



ATTENTION: IT IS NORMAL FOR THE COOKTOP, AFTER THE FIRST LIGHTING, TO ACQUIRE AND RETAIN A BLUISH AND/OR YELLOWISH HUE.



#### 7.2 REFUELLING

The stove is an intermittent combustion appliance so it requires refuelling. Once combustion is achieved inside the combustion chamber and consequently there are embers present, proceed with the first fuel feed:

- 1) Raise the starter using the special riddling tool.
- Wait a few seconds and open the firebox door slowly to minimise the risk of smoke escaping and use the riddling tool to spread the embers.

N.B. It is prohibited to light or reload the fuel with a bed of embers higher than 3 cm as this does not guarantee correct use of the appliance.

- 3) Take two or three logs, each of which must not exceed the weight specified in the technical data table, and lay them parallel in the centre of the grate in the combustion chamber, as illustrated in the figures below. Slowly close the firebox door, lower the starter using the special riddling tool.
- 4) Open the primary air control as much as required.
- 5) Close the ring for rekindling the fire or the air regulator lever.

To rekindle the fire clear the ash from the air passage slots to promote better combustion. Do not add additional fuel until the previous load has burnt or is reduced to embers, then open the firebox door slowly and place the logs in an orderly manner on the bed of embers. Complete the operation by slowly closing the door and return the air control and levers to the positions described above.







#### 7.3 GRATE POSITIONS

The combustion chamber grate can be adjusted to 3 positions:

#### - Grate completely lowered and heating only.

By lowering the grate completely almost all the heat is transferred to the water and therefore to the system, making full use of the wet surfaces.

#### - Grate completely raised.

By raising the grate completely almost all the heat is transferred to the cooktop, or to the oven (if present) depending on the regulation of the flap (explained in the next chapter).

#### - Intermediate grate and flap positions

Different situations are possible by positioning the grate and flap in intermediate positions.



To raise the grate gently pull down the grate height adjustment lever  $(\mathbf{L})$ .

When the grate is in the desired position return the lever to its home position. If the movement is hard, pull the handle back and forth several times in order to free the grate, before taking it to the new position. It is easier to perform this operation when there is little fuel.

Whereas to lower the grate pull the grate height adjustment lever (L) until the grate is slightly raised, while at the same time lifting the grate adjustment release lever (H) and accompany the lever (L) until the grate is lowered to the desired level.



By acting on the smoke deviator flap (see figure on the side) the product can be used in several modes:

#### - Only heating (flap up)

In this mode almost all the heat is transferred to the water, therefore to the system and to the left side of the cooktop. In this operating mode the maximum heat output is transferred to the water.

#### - Heating and cooking (flap down)

In this mode almost all the heat is used to heat the oven, the cooktop plate is completely heated.

It is also possible to turn on the oven light to monitor your food as it cooks by pressing the dedicated switch (I).

#### 7.5 VITRIFICATION

The products can be supplied with a vitrified combustion chamber. This treatment occurs at very high temperatures that permit the glass and steel to melt into an alloy that is completely impervious to corrosion attack caused by acid combustion smoke. Vitrification protects the internal combustion chamber from corrosion caused by acid smoke and condensation developed by the combustion of the wood fuel. Surface defects do not affect the duration or resistance of the anti-corrosion treatment.

Vitrification has no protective function against corrosion, scaling or breakage caused by stray currents, condensation, aggressiveness or acidity of the water, descaling treatments carried out incorrectly, lack of water, sludge or limescale deposits. The system must therefore always guarantee a return water temperature exceeding 55°C.

# 7.6 THERMOMETER

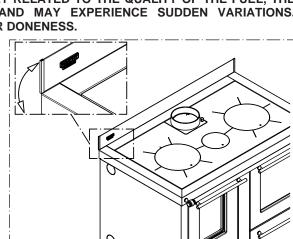
Model F30 is supplied as standard with a thermometer installed on the glass of the oven door.

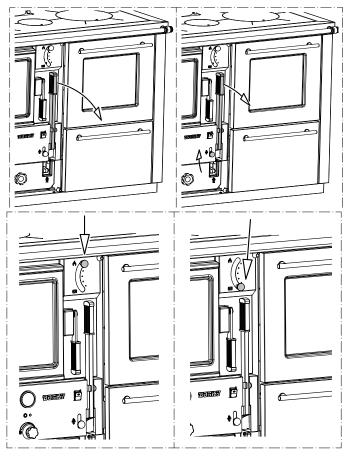


THE THERMOMETER GIVES AN APPROXIMATE, NOT PERFECTLY RELIABLE, READING OF THE OVEN TEMPERATURE. THE OVEN TEMPERATURE IS STRICTLY RELATED TO THE QUALITY OF THE FUEL, THE FLUE OUTLET DRAUGHT AND OTHER FACTORS, AND MAY EXPERIENCE SUDDEN VARIATIONS. THEREFORE ALWAYS VISUALLY CHECK THE FOOD FOR DONENESS.

#### 7.7 ADJUSTMENT OF THE BACKSPLASH

The backsplash can be adjusted according to need by simply applying pressure to it until you achieve the desired result.









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#### 7.8 PRESCRIPTIONS FOR CORRECT OPERATION

- Respect the maximum declared consumption, do not overload the stove with excessive quantities of fuel as this could cause damage.



LOADING A LARGER QUANTITY OF FUEL OR LOADING SEVERAL TIMES IN AN HOUR EXPOSES THE COMPONENTS OF THE APPLIANCE TO VERY HIGH TEMPERATURES. FOR THIS REASON, THE WARRANTY WILL NOT COVER ANY DAMAGE CAUSED BY PROLONGED EXPOSURE OF THE APPLIANCE TO THESE TEMPERATURES.



DO NOT THROW THE WOOD INTO THE COMBUSTION CHAMBER, PLACE IT IN GENTLY. THROWING THE WOOD COULD END UP BREAKING PARTS. DAMAGE CAUSED IN THIS WAY IS NOT COVERED BY WARRANTY.

- The appliance must not be used as an incinerator, the use of liquid or gaseous fuels is prohibited.
- Adhere strictly to the operating instructions set out in this manual.
- Always verify that the fuel loaded into the combustion chamber lights correctly. Make sure that this always occurs to avoid any buildup of combustible gases. The buildup of a high quantity of combustible gases could exceed the mechanical resistance of the glass and other components of the stove. For these reasons, the manufacturer disclaims all responsibility.
- In adverse weather conditions, such as for example low pressure, windy or rainy days or days with high outside temperatures, the effect could be a drop in draught or reverse draught. In these situations, the flue gases may not be completely exhausted. Consequently, in these cases it is necessary to increase the primary air and load the smallest amount of fuel in order to reactivate the draught of the flue outlet. If you notice the smell of smoke in the room or stagnation of gases inside the combustion chamber avoid using the appliance.



### 8 - CLEANING AND MAINTENANCE

#### 8.1 FOREWORD



To guarantee correct operation and optimal performance of the appliance at all times carry out the operations described below. Observe the recommended frequency.

If the product is unused for a prolonged period of time before starting up, it is mandatory to inspect the smoke channel and outlet to ensure that there are no obstructions. It is important to carefully follow the instructions set out below: failure to observe these instructions could cause serious damage to the product, to the system, to objects and to persons using the appliance.



Attention: do not wet or touch the appliance with wet hands. Never vacuum hot ash: this could damage the vacuum device. All the cleaning operations described in this manual must be carried out when the appliance is cold.

The user must periodically clean the appliance, or have an authorised service centre clean it, as described in this manual. Moreover, once a year it is advisable to have an inspection carried out of the functionality of the flue outlet.

# **8.2 CLEANING AND MAINTENANCE**

#### **EVERY TIME YOU REFUEL:**

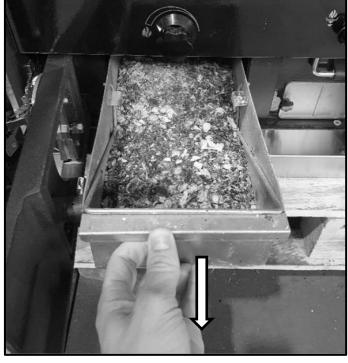
 If necessary, thoroughly clean the grate of the combustion chamber by de-ashing the grate through the slots. The air passage through the firebox grate must always be kept free from obstructions. Use the supplied riddling tool or scraper for this operation.



#### **EVERY TWO DAYS or WHENEVER NECESSARY:**

• Turn the knob counterclockwise, open the door, remove the primary ash pan and empty it. We recommend emptying the ash pan regularly before it fills up completely.

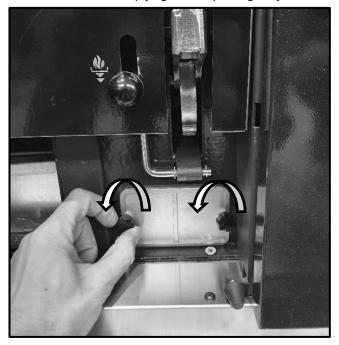


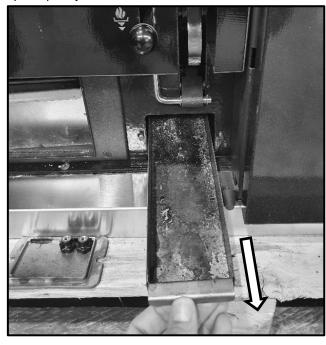




#### **EVERY WEEK:**

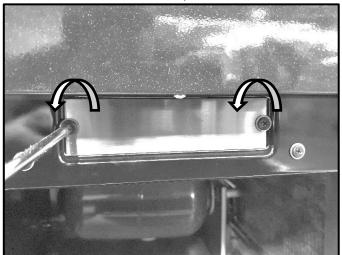
Open the door, unscrew the two knobs indicated in the photo below, remove the secondary ash pan and empty it. We
recommend emptying the ash pan regularly before it fills up completely.

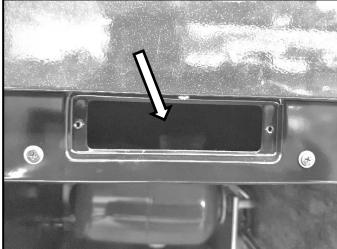




#### **EVERY MONTH:**

- For model F30 only, clean the compartment under the oven. To clean it, remove the two screws and remove the cleaning cover as indicated in the photo below and vacuum out the ash deposits.





### **EVERY 6 MONTHS:**

- Lift and remove the cooktop to clean the flue path with a flue brush and ash vacuum device.

#### AT LEAST ONCE A YEAR:

- Clean the flue outlet. If there are any horizontal sections, inspect them and clean out any ash and soot deposits before they block the passage of the flue gases.

#### **8.3 CLEANING THE STEEL COOKTOP**

Clean the cooktop with normal, mild detergents. Protect the steel cooktop by applying a film of oil to keep it clean and shiny. Alternatively, apply a thin layer of protective chrome paste readily available at hardware stores. Take care when applying the oil to avoid indelibly soiling the side edges. If any rust appears remove with a slightly abrasive scourer then apply a thin layer of protective oil or chrome paste.

All the steel parts must only be cleaned when the appliance is cool, with water and mild detergents.



#### 9 – SMOKE DISCHARGE TUBE

#### 9.1 FOREWORD



Due to the frequent accidents caused by poor functioning of flue outlets installed in private dwellings, we have prepared the following paragraph to assist the installer in his inspection of the parts concerned with eliminating the gases produced by combustion.



The exhaust pipe must be installed in compliance with regulations UNI7129, UNI 10683, and with the stated reference values. In particular, the outlet must comply with fire prevention regulations.

It is important to carefully follow the instructions set out below: failure to observe these instructions could cause serious damage to the product, to the system, to objects and to persons using the appliance.

#### 9.2 ROOM VENTILATION



ATTENTION: The presence of extraction fans or similar appliances, if operating in the same room or space in which the product is installed, could cause problems for the correct operation of the product.

ATTENTION: do not obstruct the vents or the air inlets on the appliance.

The room where the appliance is installed must have a good air inflow to guarantee air for the appliance for the combustion process and for ventilation of the room. The natural air inflow must take place directly through permanent openings on the outer walls or through single or multiple ventilation ducting.

The ventilation air intake must be located away from pollution sources.

The openings in the walls must comply with the following conditions:

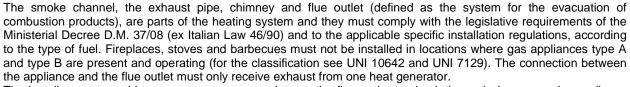
- have an unobstructed section of at least 6 cm² for each kW of installed thermal power, with a minimum limit of 100 cm²;
- be made in such a way that the vent openings, both on the inside and outside of the wall, cannot be obstructed;
- be protected with grills or similar systems that do not reduce the opening section indicated above;
- be situated at a height near-floor level and they must not obstruct the correct operation of the combustion product discharge devices; if this position is not possible, the section of the ventilation openings must be enlarged by at least 50%.



The following chapter is not intended to replace UNI 7129, UNI 10683 and EN13240 standards. The qualified installer must in any case be fully aware of this standard and its amending versions.

#### 9.3 SMOKE OUTLET







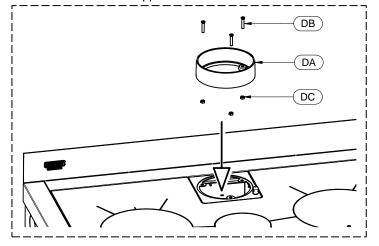
The installer must provide one or more access points on the flue outlet to check the emissions once the appliance has been installed; these access points must be made in such a way as to be airtight sealable to prevent exhaust gas leaks.

It is recommended to provide insulation and to ensure the optimal sizing of the flue outlet in order to avoid the possible risk of condensation forming in the flue outlet.

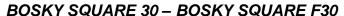
#### 9.3.1 CONNECTION TO THE FLUE OUTLET

#### Top smoke exhaust

If you decide on a top smoke exhaust, you must mount the supplied flue collar (DA) and fix it with the supplied bolts (DB) and nuts (DC). Never use the same flue outlet for more than one appliance.



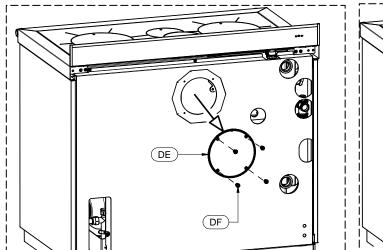


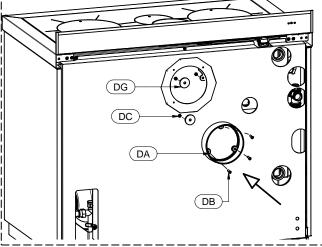




#### Rear smoke exhaust

If you decide on a rear smoke exhaust, you must remove the pre-drilled disk (DE) after removing the 4 screws (DF). Next mount the supplied flue collar (DA) and fix it with the supplied bolts (DB), nuts (DC) and washers (DG).





#### 9.3.2 CHIMNEY TYPES

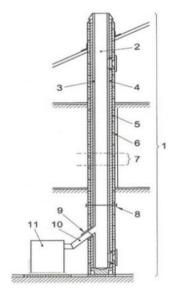
The following types of chimneys, constructed as described, are possible:

- System: chimney installed using a combination of compatible components (flue liner, insulation, outer casing, etc.), manufactured or specified by a single manufacturer and EC certified in accordance with the applicable standard;
- Composite chimney: chimney installed and built on site using a combination of compatible components such as flue liner (wall in direct contact with the flue gases), possibly also insulation and outer casing (wall) that may be supplied by different manufacturers or by the same manufacturer.
- Relining: operation involving the installation of a specific pipe in an existing shaft (even if newly constructed) made of non-combustible materials, free from obstructions and for single use.

#### 9.3.3 FLUE OUTLET / FLUE SYSTEM COMPONENTS

# Components and accessories of a chimney

- 1 Chimney
- 2 Flow path
- 3 Smoke discharge tube
- 4 Thermal insulation
- 5 External wall
- 6 Outer lining
- 7 Flue outlet section
- 8 Multiwall chimney
- 9 Connector
- 10 Flue pipe
- 11 Heat generator



Every chimney must have a minimum number of components as laid down by standard UNI EN 1443 which are also indicated in the figure on the side.



ATTENTION: Wall outlets, that is outlets installed on the outer front wall without the use of a chimney/flue outlet /flue pipe to convey the combustion products to the roof, are strictly prohibited.

#### **BOSKY SQUARE 30 – BOSKY SQUARE F30**

#### 9.3.4 CONTROLS PRIOR TO INSTALLING THE APPLIANCE

The user must possess a certificate of conformance for the flue outlet (Ministerial Decree 22 January 2008, no. 37).

The flue outlet must be built in compliance with UNI 10683.

The smoke exhaust illustrated in the figure on the side is the best solution required to ensure that the flue gases are discharged. If you prefer to exhaust the smoke from the roof insert a union tee with inspection cap, connecting brackets suitable for the height of the flue outlet, flashing that crosses the roof and chimney cap to protect against bad weather conditions.

If you decide to use the classic masonry exhaust provide a union tee with inspection cap and suitable supporting brackets. If the flue outlet is too big, it is necessary to insert a stainless steel or porcelain-coated steel tube with suitable diameter.

Seal area where the inlet and outlet part of the smoke exhaust meets the wall. It is strictly forbidden to apply mesh to the end of the outlet tube, as it could cause the appliance to malfunction.

If the smoke tube is installed in a fixed position, it is advisable to provide inspection openings for clean-out purposes especially in the horizontal sections

See the diagram. These openings are essential to allow for the removal of ash and unburned products which tend to accumulate along the discharge path. Seal the fittings with red silicone (resistant to 350°C).

2 metri MAX.  Pendenza non inferiore al 5 %  Pendenza non inferiore al 5 %  Tutte le tubazioni devono essere termicamente isolate.	ALTEZZA SUPERIORE A 4 metri
KEY	
CHIMNEY CAP AND FLUE OUTLET ACCORDING	
TO 1 10 11 10 000 OTA 1 10 10 10	

LEGENDA	KEY	
COMIGNOLO E CANNA FUMARIA SECONDO	CHIMNEY CAP AND FLUE OUTLET ACCORDING	
NORMA UNI 10683	TO UNI 10683 STANDARD	
2 - 3 metri MAX	2 -3 metres MAX.	
2 metri MAX	2 metres MAX	
Pendenza non inferiore al 5%	Minimum slope 5%	
ALTEZZA SUPERIORE A 4 m	HEIGHT MORE THAN 4 m.	
Tutte le tubazioni devono essere termicamente	All the pipes must be thermally insulated	
isolate	•	
ISPEZIONE	INSPECTION	

The outer casing of the tube must be made with insulating material (mineral wool, ceramic fibre) or use pre-insulated tubing. THE FLUE OUTLET MUST BE USED ONLY FOR THE APPLIANCE.

It must be possible to inspect and remove all the smoke tube sections for clean-out purposes.



ATTENTION: if the flue outlet is not sufficiently insulated and /or if it is too long it could generate condensation. It is advisable to provide a condensation drain near the smoke outlet of the appliance. The appliance must always and only be installed in a single flue outlet system dedicated exclusively to the appliance.

If the generator is connected to a non-compliant flue system the appliance could rapidly deteriorate due to an abnormal, continuous overheating: in this case the damaged parts will not be covered by warranty.

IN THE EVENT OF A FIRE IN THE CHIMNEY CLOSE ALL THE AIR PASSAGES AND CALL THE FIRE BRIGADE IMMEDIATELY



#### **FNG**

# **BOSKY SQUARE 30 – BOSKY SQUARE F30**

# 10 - PROBLEMS, CAUSES AND SOLUTIONS

PROBLEM	CAUSE	SOLUTION
Difficulty in lighting the cooker.	Blocked grate.	Clean the grate.
	Moist wood or too thick.	Use smaller sized and more seasoned wood.
	Poor draught.	Clean the ash pan. Remove the cooktop and thoroughly clean the flue gas path and the flue outlet Check the flue pipe: • for constrictions • too many curves • bad insulation • section too small
Smoke in the room.		Clean the ash pan and all the inspection drawers.
Difficulty maintaining the fire.  The oven is not heating	Poor draught.	Remove the cooktop and thoroughly clean the smoke channel. Clean (or have someone clean) the flue. Check the flue pipe:
properly.		<ul><li>for constrictions</li><li>too many curves</li><li>bad insulation</li></ul>
Low cooktop temperature.	N	• section too small
Flame insensitive to draft	No air in the room.	Create an adequate opening for the air.
variations.	Moist wood or too thick.	Use smaller sized and more seasoned wood.
Puffs while operating.	Poor maintenance of the	
Cooktop oxidised.	cooktop.	Clean and maintain the cooktop.
	Corrosive environment for metals.	Install in a non-oxidising environment.
The fuel is burning too quickly, uncontrolled combustion.	Excessive draught.	Reduce draught of the flue outlet by installing a suitable device (e.g. draught regulator).
The cooktop has warped.  The oven thermometers have drifted or yellowed.  The handles have warped.	Excessive consumption of wood, more than the amount indicated in this manual.  Incorrect use of the appliance.	Contact a service centre to restore the appliance for a fee then use the appliance as instructed in this manual and comply with all the supplied instructions.
Broken components inside the combustion chamber.	No or poor cleaning of the appliance.	
Tendency to generate	Poor draft	Check the flue outlet
condensation (presence of humidity /water in the ashpan compartment and under the product).  The temperature of the	The system is not absorbing sufficient heat.	Open all the zones of the system, load less wood or install a puffer.
oven is not rising.  The temperature of the oven is not rising.	Excessive draught.	Reduce draught of the flue outlet by installing a suitable device (e.g. draught regulator).

IF THE RECOMMENDED REMEDIES DO NOT SOLVE THE PROBLEM CONTACT A QUALIFIED TECHNICAL ASSISTANCE SERVICE.





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