# THERMOROSSI <sup>®</sup>

# Installation, use and maintenance guide.





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EU Declaration of	f Conformity (DoC)	/ Dichiarazione d	i Conformità UE (DoC)
Company name: Azienda:	THERMOROSSI S.P.A.	Postal address: Indirizzo:	VIA GRUMOLO, N° 4
Postcode and city: Codice postale e città:	36011 ARSIERO (VI)	Telephone number: Numero di telefono:	0445/741310
E-mail address: Indirizzo e-mail:	INFO@THERMOROSSI.IT		
	ne DoC is issued under our sole arazione viene rilasciata sotto la		
Apparatus model / Product: Descrizione prodotto:	Stufa a pellet Pellet stove	Trademark: Marchio:	THERMOROSSI
Models: Modelli:	NATURAL 8 NATURAL 10 NATURAL 13		
	laration described above is in c arazione di cui sopra è conform		
	2014/30/UE, EMCD a 2014/35/UE, LVD		4/30/EU Directive, EMCD 14/35/EU Directive, LVD
Son	2011/65/UE, RoHS o state applicate le seguenti no following harmonised standard	orme armonizzate e/o specific	
EN 55014-1 EN 55014-2 EN 61000-3-2 EN 61000-3-3	EN 60335-1 EN 60335-2-102 EN 62233	EN	50581
EN 14785 tests carried out by t Vendemiano (TV).	the notified laboratory Kiwa Cer	met Italia S.p.a (N.B. 0476)	iale Venezia, 45 31020
Arsiero, 15/10/2020		Firma/Sign.	st soft
	THER	MARASSI	INFORMAZIONI IMPORTANTI PER LA SICUREZZA ED IL CORRETTO FUNZIONAMENTO
Models	PELLET, WOOD	& SUN TECHNOLOGIES	

# Installation, use and maintenance guide **NATURAL SERIES**

1	THERMOROSSI <sup>O</sup> Fire Lowers	DICHIARAZIONE DI PRESTAZION DECLARATION OF PERFORM					N° 95
1	Codice di identificazione u Unique identification code	nico del prodotto-tipo: NATURAL 8				otto, serie ai sensi dell'articolo 11, paragr tch or serial number required under Artic	
3	Usi previsti del prodotto da Intended uses of the constr	a costruzione, conformemente alla relativa s ruction product, in accordance with the app	olicable harm	nica arm <i>ionised</i> i	nonizza <i>technic</i>	a: al specification:	
		damento domestico, senza acqua, aliment		di legn			
4	Namek and contact addres	o del fabbricante ai sensi dell'articolo 11, pa so of the manufacturer as required pursuant Via Grumolo, n° 4 36011 Arsiero (VI)		5): 5		me e indirizzo del mandatario ai sensi de me and address of the agent as required	
6	Sistema di valutazione e ve System of assessment and	erifica della costanza della prestazione del p verification of constancy of performance ol		ction pro	oduct as	s set out in Annex V: System 3 and 4	
7	Laboratorio notificato: Not KIWA CERMET ITALI	A S.p.A. N° 0476	4	200	04376	el rapporto di prova secondo il sistema 3.	/ Test report number based on System 3:
	Specifics teories armonizz	rres ata/Harmonized technical specification:	tazione dich	larata /	Deciai	red performance	785:2006
	Caratteristiche Essenziali /						/ Performance
	Reazione al fuoco / Reaction						A1
	Distanza da materiali com Distance to combustible m					Minime distanze / Minimum distances posteriore/rear = 200 lati/sides = 20 soffitto/ceiling = - pavimento / fl	<b>0</b> frontale $/ front = 1.000$
	Rischio di fuoriuscita di br	aci incandescenti / Risk of burning fuel fall	ing out			Conforme/Compliant	
	Temperatura superficiale/S		0			Conforme/Compliant	
	Sicurezza elettrica / Electric	ical safety				Conforme/Compliant	
8	Pulizia / Cleanability					Conforme/Compliant	
	*	a combustione / <i>Emission of combustion pro</i>	ducts			CO = 49,0 mg/m3 a potenza termica n CO = 267,0 mg/m3 a potenza termica - bar	
		za termica nominale / Flue gas temperature	at nominal l	heat out	nut	T 109 °C	
		sopportare il camino) / Mechanical resista				NPD {Nessuna Prestazione Determin	ata}
	Potenza termica nominale					7,78 kW	
		biente / Room heating output				7,78 kW	
	Potenza termica ceduta all Rendimento / Efficiency	'acqua / Water heating output				-, kW 93,12 % alla potenza termica nominale	e / Nominal heat output
	55 7					97,39 % alla potenza termica ridotta /	
9	Si rilascia la presente dichi The performance of the pro	o di cui ai punti 1 e 2 è conforme alla presta iarazione di prestazione sotto la responsabil oduct identified in points 1 and 2 is in confe nance is issued under the sole responsibilit;	lità esclusiva ormity with th	del fabl	bricante ired per	e di cui al punto 4. <i>formance in point</i> 8.	Signature: THEREIGNOSSIS.CA Un Amministratore
1	THERMOROSSI <sup>©</sup> Fire Lovers	DICHIARAZIONE DI PRESTAZION DECLARATION OF PERFORM					N° 96
1	Codice di identificazione u Unique identification code	nico del prodotto-tipo: NATURAL 10 of the product type:				otto, serie ai sensi dell'articolo 11, paragr tch or serial number required under Artic	
		a costruzione, conformemente alla relativa					
3	Apparecchio per il riscal	uction product, in accordance with the app damento domestico, senza acqua, alimento o del fabbricante ai sensi dell'articolo 11, pa	tato a pellet		o / Resi		
4	Namek and contact addres	s of the manufacturer as required pursuant Via Grumolo, n° 4 36011 Arsiero (VI)		5): 5	5 Na	me and address of the agent as required	pursuant Article 12( 2):
6		erifica della costanza della prestazione del presidente del presid					
7	Laboratorio notificato: Not	tified laboratory:	construct			el rapporto di prova secondo il sistema 3	Test report number based on System 3:
	KIWA CERMET ITALI				04376		
1	Specifico tocnico ama - :		tazione dich	uarata /	Declar	red performance	25.2006
1	Caratteristiche Essenziali /	ata/Harmonized technical specification:				EN 1478 Prestazione /	
	Reazione al fuoco / Reaction					A	
	Distanza da materiali com	4				Minime distanze / Minimum distances (m	m):
	Distance to combustible m					posteriore/ $rear = 200$ lati/ $sides = 200$	frontale / <i>front</i> = <b>1.000</b>
	Pisahia di fuorinsaita di hr	aci incandescenti / Risk of burning fuel fall	ing out			soffitto/ceiling = - pavimento / floo	r = -
	Temperatura superficiale/S		ing out			Conforme/Compliant Conforme/Compliant	
	Sicurezza elettrica / Electric					Conforme/Compliant	
8	Pulizia / Cleanability	* *				Conforme/Compliant	
0	-	a combustione /Emission of combustion pro	ducts			CO = 28,0 mg/m3 a potenza termica non CO = 267,0 mg/m3 a potenza termica rid	
		cizio / Maximum operating pressure				- bar	
	Resistenza meccanica (per	za termica nominale / Flue gas temperature sopportare il camino) / Mechanical resistat				<u>T 158 °C</u> NPD {Nessuna Prestazione Determinat	a}
	<i>chimney)</i> Potenza termica nominale Potenza termica resa in am	/ Nominal heat output biente / Room heating output				10,70 kW 10,70 kW	
1	- / Water heating output	in the second seco				-, kW	Martin I have a start
	Rendimento / Efficiency					<b>89,51 %</b> alla potenza termica nominale / <b>97,39 %</b> alla potenza termica ridotta / <i>Re</i>	duced heat output
9	La prestazione del prodotto	o di cui ai punti 1 e 2 è conforme alla presta	izione dichia	rata di c	cui al pu	into 8.	Firma:



# Installation, use and maintenance guide **NATURAL**

SERIES

						/	()
	The performance of the p	hiarazione di prestazione sotto la res roduct identified in points 1 and 2 is rmance is issued under the sole resp	in conformity with the	declared p	performance in p	oint 8.	Un Amministratore
T	HERMOROSSI <sup>©</sup> Tite Lowers	DICHIARAZIONE DI PRES DECLARATION OF PE					N° 97
1		unico del prodotto-tipo: <b>NATURA</b>	L 13 2			ensi dell'articolo 11, paragrafo 4 umber required under Article 1	
Usi previsti del prodotto da costruzione, conformemente alla relativa specifica tecnica armoi 3 Intended uses of the construction product, in accordance with the applicable harmonised tec				ca armoniz	zata:	•	
3	Apparecchio per il risca	ldamento domestico, senza acqua	, alimentato a pellet di	i legno / R	esidential space i	heating appliance without water	
4	Namek and contact addre THERMOROSSI S.P.A	zo del fabbricante ai sensi dell'artico ess of the manufacturer as required p . Via Grumolo, n° 4 36011 Arsiero	pursuant Article 11(5): <b>(VI)</b>	: 5	Name and addres -	del mandatario ai sensi dell'art ss of the agent as required pursu	
6		verifica della costanza della prestazi l verification of constancy of perform					
7	Laboratorio notificato: No KIWA CERMET ITAL	otified laboratory:			del rapporto di p		report number based on System 3:
			Prestazione dichia				
		zata/Harmonized technical specific / Essential characteristics	ation:			EN 14785:20 Prestazione / Perfe	
	Reazione al fuoco / React					A1	i mance
	Distanza da materiali con	nhustihili				ze / Minimum distances (mm):	
	Distance to combustible r				posteriore/rea soffitto/ceiling		ontale / <i>front</i> = <b>1.000</b>
	Rischio di fuoriuscita di b	oraci incandescenti / Risk of burning	fuel falling out		Conforme/Co		
	Temperatura superficiale/		<i>J J 6 6 11</i>		Conforme/Compliant		
	Sicurezza elettrica / Elect	rical safety			Conforme/Compliant		
8	Pulizia / Cleanability				Conforme/Co		( <u>a</u> a )
	-	la combustione /Emission of combus			CO = 66,0 mg/m3 a potenza termica nominale / CO at Nominal heat output CO = 267,0 mg/m3 a potenza termica ridotta / CO at Reduced heat output		
	Pressione massima di esercizio / Maximum operating pressure				- bar		
Temperatura fumi a potenza termica nominale / Flue gas temperature at nominal heat outp Resistenza meccanica (per sopportare il camino) / Mechanical resistance (to carry a				T 178 °C			
chimney)			•	NPD {Nessuna	a Prestazione Determinata}		
	Potenza termica nominale				12,91 kW		
		mbiente / Room heating output ll'acqua / Water heating output			12,91 kW -, kW		
	Rendimento / Efficiency	n acqua / water neuting bulput			<b>89,45 %</b> alla potenza termica nominale / <i>Nominal heat output</i>		
					97,39 % alla p	otenza termica ridotta / Reduced	heat output
		to di cui ai punti 1 e 2 è conforme a hiarazione di prestazione sotto la res				o.1	Signature:
9		roduct identified in points 1 and 2 is					$ \setminus $ (
	This declaration of perfor	rmance is issued under the sole resp					ERMOROSSI S.D.A.
	Arsiero, 15/10/2020					t	Un Xinfinistratore
			-				
	IT – SCHEDA PROD EN – PRODUCT FI	CHE (EU 2015/1186)	IT – MARCHIO EN – BRAND				
	FR – FICHE PROD NL – PRODUCTGEGEVI		FR – MARQUE NL – MERK		THE	RMOROSSI	S.P.A.
	DE – PRODUKTDATEN ES – FICHA DE PROD	NBLATT (EU 2015/1186) DUCTO (UE 2015/1186)	DE – MARKE ES – MARCA				
	– MODELLO I – MODEL	· · · ·					
FR	– MODÈLE – MODEL			JATU	RAL 8	NATURAL 10	NATURAL 13
DE	E – MODELL		-				
IT	– MODELO – CLASSE DI EFFICIENZA E						1
	N – ENERGY EFFICIENCY CL R – CLASSE D'EFFICACITÉ ÉÌ						
NI	L – ENERGIE EFFICIENTIEKI	LASSE		Α	+	A +	$\mathbf{A}$ +
	E – ENERGIEEFFIZIENZKLA 5 – CLASE DE EFICIENCIA EN						
	– POTENZA TERMICA DIRE						

NL – ENERGIE EFFICIENTIEKLASSE	Ат	Ат	Ат
DE – ENERGIEEFFIZIENZKLASSE			
ES – CLASE DE EFICIENCIA ENERGÉTICA			
IT – POTENZA TERMICA DIRETTA			
EN – DIRECT HEAT OUTPUT			
FR – PUISSANCE THERMIQUE DIRECTE	<b>7.8</b> kW	10.7 kW	12.9 kW
NL – DIREKTE WARMTEAFGIFTE	/.0 K W	10.7 K W	12.9 K W
DE – DIREKTE WÄRMELEISTUNG			
ES – POTENCIA CALORÍFICA DIRECTA			
IT – POTENZA TERMICA INDIRETTA			
EN – INDIRECT HEAT OUTPUT			
FR – PUISSANCE THERMIQUE INDIRECTE			
NL – INDIRECTE WARMTEAFGIFTE	-	-	-
DE – INDIREKTE WÄRMELEISTUNG			
ES – POTENCIA CALORÍFICA INDIRECTA			
IT – INDICE DI EFFICIENZA ENERGETICA			
EN – ENERGY EFFICIENCY INDEX			
FR – INDICE D'EFFICACITÉ ÉNERGÉTIQUE	123	119	119
NL – ENERGIE-EFFICIENTIE-INDEX	123	119	119
DE – ENERGIEEFFIZIENZINDEX			
ES – ÍNDICE DE EFICIENCIA ENERGÉTICA			
IT – EFFICIENZA UTILE ALLA POTENZA TERMICA NOMINALE			
EN – USEFUL ENERGY EFFICIENCY AT NOMINAL HEAT OUTPUT			
FR – RENDEMENT UTILE À LA PUISSANCE THERMIQUE NOMINALE	93.1%	89.5%	89.4%
NL – NUTTIG RENDEMENT BIJ NOMINAAL VERMOGEN	<b>33.1</b> 70	07.570	07.470
DE – BRENNSTOFF-ENERGIEEFFIZIENZ BEI NENNWÄRMELEISTUNG			

ES – EFICIENCIA ENERGÉTICA ÚTIL A POTENCIA CALORÍFICA NOMINAL



IT – EFFICIENZA UTILE AL CARICO MINIMO EN – USEFUL ENERGY EFFICIENCY AT MINIMUM LOAD FR – RENDEMENT UTILE À LA CHARGE MINIMALE NL – NUTTIG RENDEMENT BIJ MINIMALE WARMTEAFGIFTE DE – BRENNSTOFF-ENERGIEEFFIZIENZ BEI MINDESTLAST ES – EFICIENCIA ENERGÉTICA ÚTIL A CARGA MINIMA	97.4%	97.4%	97.4%
IT – RISPETTARE TUTTE LE ISTRUZIONI RIPORTATE SUL MANUALE DI INSTALLAZIONE USO E MANUTENZIONE 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			
FR – RESPECTER TOUTES LES INSTRUCTIONS CITEES DANS LA NOTICE D'INSTALLATION, UTILISATION ET ENTRETEN 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			

# 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.

Before beginning any cleaning or maintenance operation switch off the appliance by means of the 0/l main switch and disconnect the plug from the electrical power socket. The product must be installed in suitable locations and furnished with all the services (power and outlets) which the appliance requires for a correct and safe operation. 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</u> <u>used in any other way without the necessary authorisation.</u>

#### **1.2 SAFETY STANDARDS**



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.

#### **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 power supply line must have a section which is suitable for the power of the equipment. 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 230V and 50 Hz. Voltage variations greater than



#### Installation, use and maintenance guide NATURAL SERIES

10% of the nominal value can cause irregular operation or damage the electrical device. 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. Position the power supply cable in order to prevent any contact of the latter with the smoke exhaust pipe or hot parts of the appliance. If the power cord is damaged it must be replaced by the manufacturer or by an authorised technical assistance service in order to avoid risks.

Your appliance has obtained the CE marking and has been made to run for 1 hour to check that it functions correctly. 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 every use make sure that the brazier is clean and positioned correctly in its seat, check that the ash pan is clean and that the firebox door is firmly closed and tight.

ATTENTION: the door must always remain shut tight when the appliance is operating. It is strictly forbidden to open the door while the appliance is in operation. 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 strictly prohibited to use any type of fuel (liquid, solid...) to light up the appliance: lighting must occur automatically as intended and described in this installation, use and maintenance booklet; consequently, it is also strictly forbidden to feed pellets (or any other material) into the brazier. 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.



Attention! Warning for Swiss users

appliance is cold and disconnected from electric power.

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).

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

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 in a vertical position when handled and exclusively by means of trolleys. Take special care to protect the electric panel 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**



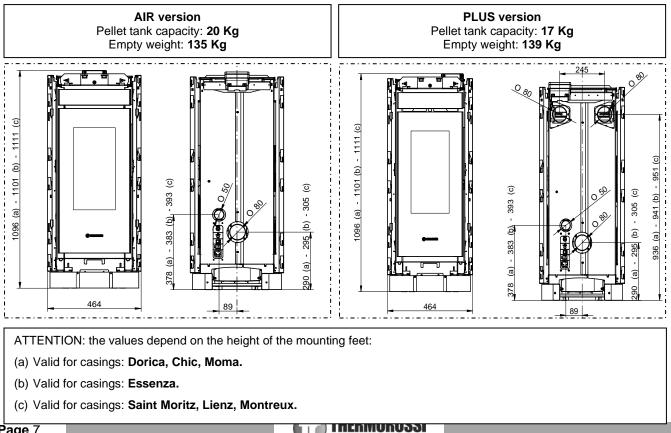
At the end of the product's useful life it must be disposed of in compliance with applicable regulations and in respect of the environment, not with urban waste. The product must be consigned to designated sorted waste collection centres for the disposal of electronic waste authorised by the local municipal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



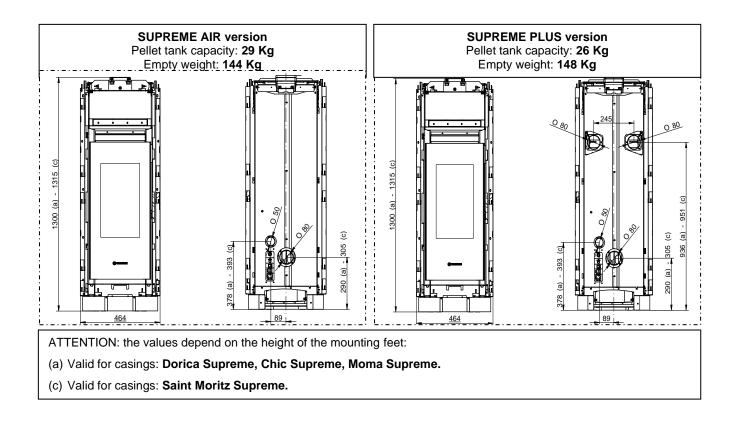
# **2 – TECHNICAL CHARACTERISTICS**

	M.U.	NATURAL 8	NATURAL 10	NATURAL 13
Firebox power Min. / Max.*	kW	3.18 / 8.35	3.18 / 11.95	3.18 / 14.43
Rated power Min. / Max.*	kW	3.09 / 7.78	3.09 / 10.70	3.09 / 12.91
Consumption min/max *	Kg/h	0.65 / 1.72	0.65 / 2.46	0.65 / 2.98
Ø smoke exhaust pipe	mm	80	80	80
Min. draught at rated power	Pa	12	12	12
Min. draught at reduced power	Pa	12	12	12
Average smoke temperature at rated power *	°C	109	158	178
Average smoke temperature at reduced power *	°C	47	47	47
Smoke flow at rated power *	g/sec	5.9	7.9	8.2
Smoke flow at reduced power *	g/sec	3.0	3.0	3.0
Efficiency at rated power *	%	93.12	89.51	89.45
Efficiency at reduced power *	%	97.39	97.39	97.39
CO emissions with 13% O <sub>2</sub> at rated power*	mg/m <sup>3</sup>	49	28	66
CO emissions with 13% O <sub>2</sub> at reduced power*	mg/m <sup>3</sup>	267	267	267
Power supply voltage and frequency	V – Hz	230 – 50	230 – 50	230 – 50
Max electrical consumption	A – W	1.30 – 300	1.30 - 300	1.30 – 300
Min electrical consumption	A – W	0.27 – 60	0.27 – 60	0.27 – 60
Heatable volume **	m <sup>3</sup>	210	288	348

\* All the data are based on the stove fuelled with standards UNI EN 14961-2 A1 and A2 type-approved pellets. \*\* 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.



WOOD & SUN TECHNO





# **3 – GENERAL DESCRIPTION**

#### **3.1 OPERATING TECHNOLOGY**

Your appliance has been built to fully satisfy all your heating and practical requirements. Top-grade components and functions managed with microprocessor technology guarantee high reliability and optimal performance.

#### **3.2 THE PELLET**

The appliance is fuelled by pellets, that is, cylinders of compressed sawdust; it his allows you to fully enjoy the heat of the flame without having to manually stoke the combustion.

The pellets have a 6 mm diameter and a length between 10 e 20 mm. They have a max moisture content of 8%; a thermal value of 4000/4500 Kcal/kg and density of 640-650 kg/m<sup>3</sup>. It must be approved according to UNI EN 14961-2 A1 A2.

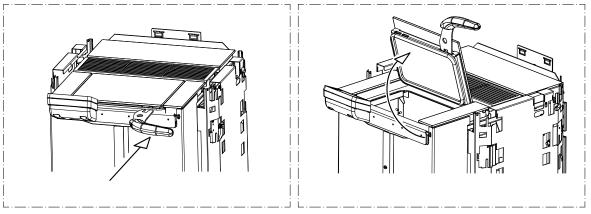
It is strictly forbidden to use any pellet type other than that specified above. The use of fuel that does not comply with the above specifications not only immediately invalidates the warranty for the appliance but can also create dangerous situations. Do not use the appliance as an incinerator, at the risk of voiding the warranty.

#### 3.3 PELLET REFUELLING



The feedbox is situated in the top part of the appliance. The load capacity specified in the technical data can vary according to the specific weight of the pellets.

Take special care when loading the tank as the screw feeder at its base is in motion. To access the feedbox firstly open the tank cover using the special handle as illustrated in the figure below. ATTENTION: it is normal to find some pellets remaining in the tank even if the stove shuts off because the pellets have run out.



Attention: when filling up the tank, take care not to drop any pellets into the internal parts of the appliance, as, in extreme cases, this could generate live flames.



The manufacturer recommends emptying the tank and vacuuming the screw feeder zone once a month and during the summer period. If the screw feeder can be seen when loading the pellet in the tank (pellet almost exhausted in the tank), the appliance must be turned off, cooled down and the brazier must be cleaned. Do not switch off the appliance by means of the main switch O/I on the power panel or by cutting off the power supply. Then restart the appliance.



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 fuel feed door for any reason and do not go near the appliance until said gases have been exhausted. Contact a technical service centre to determine the causes. Do not switch off the appliance by means of the main switch O/I on the power panel or by cutting off the power supply. Do not turn on the appliance for any reason whatsoever following an event such as this.

<u>Only pellets complying with the above specifications are to be loaded into the tank; in no case whatsoever must foreign</u> substances or objects be introduced into the tank, the brazier or any part of the generator.



# 4 - INSTALLATION

#### 4.1 APPLIANCE LOCATION

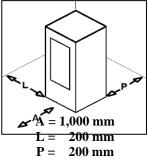


Follow the general guidelines set out in paragraph 1.1 to the letter. Above all keep in mind that the floor of the installation site must be capable of bearing the weight of the appliance added to the weight of the pellets in the tank.

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.



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 (see figure at right)



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). 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). <u>Failure to observe this instruction will immediately invalidate the warranty.</u>

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) Drawing of the finished installation.
- d) References to existing partial or previous declarations of conformity (e.g. electrical wiring).
- e) Copy of the certificate of recognition of the professional technical qualifications.



These documents must, by law, be kept together with the use and maintenance booklet. 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 booklet 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 generator.

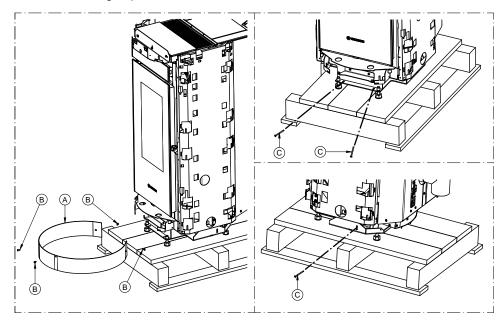
The installer must provide the final user with verbal instructions on the correct use of the appliance when the appliance is set at work for the first time.



#### 4.2 UNPACKING THE APPLIANCE



To unpack the appliance remove the cardboard from the package, then remove the ring (A) by unscrewing the 4 screws (B). Unsrew the 2 front screws and the 2 side screws (C) holding the appliace fixed to the pallet. The ring (A) needs to be re-mounted only for some casings, so refer to the casing's specific manual.



#### 4.3 UNPACKING/MOUNTING THE CASING

See the specific manual for the casing.

#### 4.4 CONNECTING THE APPLIANCE 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 use and maintenance guide.

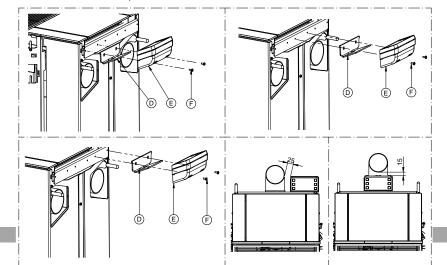


The product is supplied with the front control panel (E) mounted on the right side; if needed, the front control panel can be moved to the centre or to the left side. To carry out the operation unscrew the 2 screws (F) and move the front control panel (E) and the bracket (D) to the desired position.

Pay particular attention when assembling the smoke outlet pipe as it must be no less than 15 mm from the control panel: if the pipe is positioned close to the panel it would certainly damage the control panel (damage which is not covered by warranty).

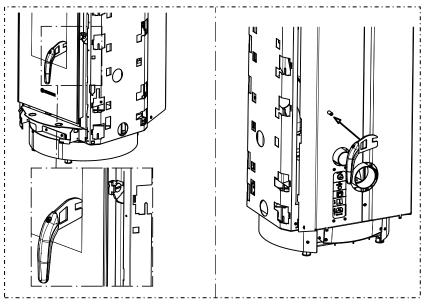


This operation must be exclusively performed by qualified professional staff, as set forth by Decree no. 37 of 22nd January 2008 and applicable laws on the subject. Before performing said task, make sure the power supply cable is disconnected from the electrical power socket.



#### 4.5 HANDLE

Your appliance is supplied with a handle for opening the firebox door; this tool must be used for opening the door to permit carrying out cleaning operations (see dedicated paragraph). The handle, when not being used, can be stored at the back of the appliance on the hook provided.

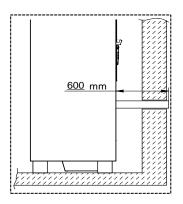


#### 4.6 DRAWING COMBUSTION AIR FROM OUTSIDE

The appliance is fitted with an intake to enable drawing in the combustion air directly from outside the building. Connect the air intake on the appliance to the exterior of the building with suitable piping, capable of resisting high temperatures. The pipe's length must be maximum 600 mm.



**ATTENTION:** The suction duct must be protected with a grid and never be clogged. The protection grid, if installed, must be inspected and cleaned on a monthly basis. Moreover, a suitable windbreak fitting must be installed in the duct's terminal.





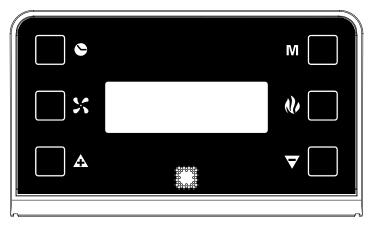
# **5 – DESCRIPTION OF THE CONTROLS**



The appliance, when operating, could be hot to the touch, particularly the door of the combustion chamber: take care when handling the appliance components. Your appliance has obtained the CE marking and has been made to run for at least one hour to check that it functions correctly. 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 use and maintenance booklet).

CAUTION: Before each use make sure that the brazier is clean and positioned correctly in its lodging. ATTENTION: the door must always remain shut tight when the appliance is operating. It is strictly forbidden to open the door while the appliance is in operation. While the appliance is in operation the smoke exhaust pipes can reach extremely high temperatures: do not touch them! It is strictly prohibited to use any type of fuel (liquid, solid...) other than pallet to light up the appliance: lighting must occur automatically as intended and described in this installation, use and maintenance booklet; consequently, it is also strictly forbidden to feed pellets (or any other material) into the brazier. 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 during normal operation.

#### 5.1 DESCRIPTION OF THE CONTROL PANEL



The control panel is managed by a microprocessor. The control buttons and the various displays are described below. The control buttons are:



#### Clock button

Press this button to activate / deactivate the programming.



Ventilation button

Press this button to set the desired level of ventilation: Ventilation can be turned off or set at six different levels. If activated, it will start up as soon as the temperature inside the stove body rises, whereas it will stop automatically when the stove body has cooled sufficiently.



#### Flame button

Pressing this button when the appliance is off activates the START sequence, sets the power of combustion in the WORK mode or shuts off the appliance by activating the OFF sequence.



#### Scroll buttons (only in the Menu)

Press MINUS key to lower the value. Press PLUS key to raise the preset value.



#### Menu button

Press this button to access the main menu. You can scroll the setting screens shown below, which will be described in detail in the following paragraphs. To access the functions of each subwindow wait a few seconds.

DATE/TIME CHRONO

This button is used to set the day of the week, the hour and minutes. This button is used to set the programmed on and off sequences.



#### Installation, use and maintenance guide NATURAL SERIES

#### LEVEL THERMOCOMFORT SHOW CRONO

Is used to change the rotation speed of the smoke suction unit. This button is used to activate the connection with the Room Control device (Optional). This button is used to view the parameters programmed with the CRONO function.

#### Display

The following information can appear on the display:



up around the fan symbol, using this logic:





Displays the preset combustion power, and consequently the pellet consumption, by the number of bars that are lit up around the flame symbol, using this logic:

One bar lit up: Two bars lit: Three bars lit: Four bars lit: Five bars lit up: No bars lit up:

Minimum combustion power (and therefore with minimum pellet consumption) Second combustion power Third combustion power Fourth combustion power Maximum combustion power (and therefore with maximum pellet consumption) The appliance is OFF Displays the preset ventilation power, and consequently the room fan speed, by the number of bars that are lit



One bar lit up: Two bars lit up: Three bars lit: Four bars lit: Five bars lit: Six bars lit:

Minimum ventilation power Second ventilation power Third ventilation power Fourth ventilation power Fifth ventilation power Maximum ventilation power



Displays the off status of the ventilation, that is, the room fan is disabled. However, if the temperature of the stove body rises, the fan is forcibly activated and increases the ventilation power as the temperature increases, which can be seen by the bars that light up around the symbol. Once it has dropped below a certain threshold the room fan deactivates automatically.



Dashes appear along the top of the display, and each dash corresponds to one day of the week set by the user (e.g. 1 corresponds to Monday, 2 corresponds to Tuesday... etc.). The operating status of the appliance appears below these dashes, that is START, OFF or WORK. And the current time set by the user appears below this word.



The presence in the display of the clock symbol indicates that the CRONO programming has been enabled; if this symbol does not appear it means that the CRONO programming has been disabled.

#### **5.2 DESCRIPTION OF THE POWER PANEL**

The components of the power board are described below:

1) Cap for reset thermostat button.

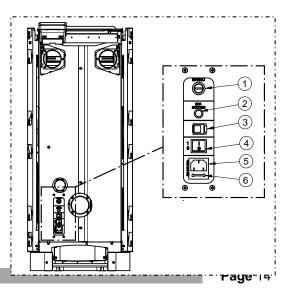
If the reset thermostat overheats stop the pellet feeder. The appliance must cool down before you can restart the appliance. After verifying and eliminating the causes of the overtemperature, undo the protective cap and press the button.

2) Test indicator light for pellet feed motor.

The light comes on simultaneously with the activation of the pellet feed motor.

- Outlet RJ 45 to connect Wi-Fi module.
- 4) Main switch 0/I.
- 5) Electrical power outlet 220V-240V 50Hz
- 6) Protection fuse 3.15 A.





#### 5.3 DATE: SETTING THE DATE AND TIME

The appliance must be energised and the I/0 switch in position "1".

The current date and time can be set using the DATE function. To set the current time and date proceed as follows:

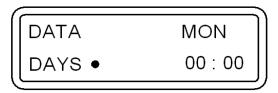
1) Press the Menu Button once to view the following screen:

DATA	

After a few seconds the following screen will appear on the display:

DATA	MON
DAYS •	

2) Now press the Scroll Buttons to change the day of the week; each dot corresponds to one day of the week (e.g. 1 corresponds to Monday, 2 correspond to Tuesday, etc...). To confirm the selection of the day of the week press the Flame Button. Once confirmed, the selector shifts to the flashing hour section:



3) Press the Scroll Buttons to change the hour. Once you have set the hour confirm the value by pressing the Flame Button. Once confirmed, the selector shifts to the flashing minutes section. Press the Scroll Buttons to set the minutes. Press the Flame button to confirm.

Once confirmed, the date and time setting screen closes automatically and the initial screen returns to the display.

If you confirm the wrong value simply press the **Menu Button** to exit the box, the initial screen will appear, and repeat the procedure described above.

#### 5.4 CHRONO: ON/OFF PROGRAMMING

The appliance must be energised and the I/O switch in position "1".

The CRONO function allows you to set the weekly program by setting up to 3 on-off cycles at different times for every day from Monday through to Sunday.

To set a program follow the procedure described below:

1) Press the Menu Button twice quickly to view the following screen:

CRONO	

After a few seconds the following screen will appear on the display:



CRONO	MON
DAYS •	
l	J

2) Press the Scroll Buttons to select the day of the week on which you want to set the program. Each dot corresponds to one day of the week (e.g. 1 corresponds to Monday, 2 correspond to Tuesday, etc...). To confirm the day of the week selected for the programming press the Flame Button. The following screen will appear with the hour section flashing:

MON
00:00
ON 1

3) Now press the Scroll Buttons to select the hour at which you wish the appliance to start up automatically (ON1). Once the hour has been set, confirm the value by pressing the Flame Button.
Once confirmed, the selector shifts to the flashing minute section of ON1. Press the Scroll Buttons to set the minutes for the first.

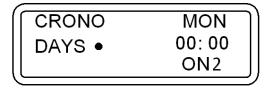
Once confirmed, the selector shifts to the flashing minute section of ON1. Press the **Scroll Buttons** to set the minutes for the first start up. Confirm the value by pressing the **Flame Button**.

4) Now press the Scroll Buttons to select the hour at which you wish the appliance to shut off automatically (OFF1). Once the hour has been set, confirm the value by pressing the Flame Button. Once confirmed, the selector shifts to the flashing minute section of OFF1. Press the Scroll Buttons to set the minutes for the

Once confirmed, the selector shifts to the flashing minute section of OFF1. Press the **Scroll Buttons** to set the minutes for the first shut off. Confirm the value by pressing the **Flame Button**.

At this point the first ON/OFF cycle for the selected day has been set.

The following screen will appear:



At this point if no further programming is required for that day go to point 5-A.

If, on the other hand, you wish to program a second ON/OFF cycle for that day go to point 5-B.

- 5-A) Press the **Menu Button** to exit the screen, in order to enable you to program the times for the ON/OFF cycles for the other days of the week. In this case repeat the instructions from point 2 up to this paragraph.
- 5-B) Press the **Scroll Buttons** to select the hour at which you wish the appliance to start up automatically for the second time (ON2). Once the hour has been set, confirm the value by pressing the **Flame Button.**

Once confirmed, the selector shifts to the minute section of ON2. Press the **Scroll Buttons** to set the minutes for the second start up. Confirm the value by pressing the **Flame Button**.

Now press the **Scroll Buttons** to select the hour at which you wish the appliance to shut off automatically (OFF2). Once the hour has been set, confirm the value by pressing the **Flame Button**.

Once confirmed, the selector shifts to the minute section of OFF2. Press the **Scroll Buttons** to set the minutes for the second shut off. Confirm the value by pressing the **Flame Button**.

At this point the second ON/OFF cycle for the selected day has been set. The following screen will appear:

MON
00:00
ON 3

At this point if no further programming is required for that day go to point 6-A. If, on the other hand, you wish to program a third ON/OFF cycle for that day go to point 6-B.

6-A) Press the **Menu Button** to exit the screen, in order to enable you to program the times for the ON/OFF cycles for the other days of the week. In this case repeat the instructions from point 2 up to this paragraph.



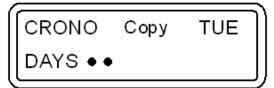
- 6-B) Press the **Scroll Buttons** to select the hour at which you wish the appliance to start up automatically for the third time (ON3). Once you have set the hour confirm the value by pressing the **Flame Button**.
  - Once confirmed, the selector shifts to the minute section of ON3. Press the Scroll Buttons to set the minutes for the third start up. Confirm the value by pressing the Flame Button.

Now press the **Scroll Buttons** to select the hour at which you wish the appliance to shut off automatically (OFF3). Once the hour has been set, confirm the value by pressing the **Flame Button**. Once confirmed, the selector shifts to the minute section of OFF3. Press the **Scroll Buttons** to set the minutes for the third shut off. Confirm the value by pressing the **Flame Button**.

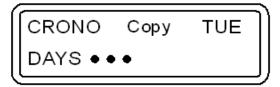
At this point the third and final ON/OFF cycle for the selected day has been set.

Alternatively, if you wish to copy the exact same programming for the ON/OFF cycles set for a particular day to the next day simply press the **Ventilation button**.

For example: if I want to copy all the programmed ON/OFF cycles set for Monday to Tuesday the following screen will appear:



I press the **Ventilation button** once again to copy all the cycles programmed for Tuesday to Wednesday. The following screen will appear:



Using the same logic we can copy the programmed cycles to the other days.

7) To conclude the programming operations simply press the **Menu Button** to exit the screen, and the initial screen will appear.



ATTENTION: The appliance ignores any ON or OFF command programmed with a value of 00:00. Consequently if you do not wish to use an ON or OFF time setting simply set a value of 00:00. The appliance ignores any ON or OFF command if the shut off time is set the same as or before the start up time.

#### ATTENTION:

In the event of a programmed cycle on always ensure that the brazier is clean and in the correct position. Failure to clean the brazier can reduce and/or affect the life of the spark plug as it would be subjected to high temperatures due to poor cooling. It is recommended to set ON/OFF cycles times lasting no less than 2 hours, in order to save energy and for the proper operation of the appliance.

#### Enabling the programmed cycles:

Back in the initial screen, to enable the appliance to carry out the ON/OFF cycles as programmed simply press the **Clock Button**. The text CR.ON and the image of a clock will appear on the main screen:



The programmed cycles are now enabled.



When the programmed cycles are enabled (a clock symbol appears on the display) it will not be possible to use an additional chronothermostat (see dedicated paragraph). When the programmed cycles are active the operating level at start up will be the same level set before the last time the

When the programmed cycles are active the operating level at start up will be the same level set before the last time the machine was shut off.

#### Disabling the programmed cycles:

To disable the appliance from carrying out the programmed ON/OFF cycles press the **Clock Button** once again. The text CR.OFF will appear on the display and the clock symbol will disappear. This operation disables the weekly program that has been set by the user but does not delete or reset the times.



#### Installation, use and maintenance guide NATURAL SERIES

#### Resetting the programmed cycles:

Moreover, it is possible to reset, in other words delete, all the programmed cycles entered by the user by holding down the Clock Button in the initial screen for approx. five seconds. Do not release the button until the text CLEAR TIMERS CLEARED appears on the screen. Only the appearance of the words CLEARED signal that the previously entered programmed cycles have been deleted.

#### 5.5 LEVEL: OPERATING LEVEL SETTING

The appliance must be energised and the I/0 switch in position "I". Your appliance is delivered with an excellent program installed that favours combustion efficiency; the program is called **LEVEL 1**.

However, if you are using pellets with a higher than normal incidence of residues after combustion in the brazier, it is possible to select alternative levels:

LEVEL 2 is an operating program that accelerates the speed of the smoke suction unit in proportion to all the combustion power levels. This level must be set when the user notices a weak, high and very dark flame. Attention: this modification does not authorise the use of below-standard pellets, or no vacuum in the flue outlet.

If using loosely compressed pellets, you could select:

**LEVEL 0**: is an operating program that decelerates the speed of the smoke suction unit when using loosely compressed pellets and/or when the flue outlet has a very high vacuum, over 2 mm water column (20 Pascal).

The pellet consumption value remains unchanged regardless of the selected operating level. These variations will only change the rotation of the smoke suction unit in the WORK stage, all the other stages will not undergo any changes. Select the required Level by acting as follows:

1) Press the **Menu Button** three times quickly and the following box will appear:

·	
LEVEL	
l	J

After a few seconds the following screen will appear on the display:

LEVEL	1	

2) To change the operating level, hold down a **Scroll Button** while simultaneously pressing the other **Scroll Button**.



To set the desired level or to exit the screen simply press the **Menu Button**; the initial screen will appear on the display.

The level selection can be made with the appliance **OFF** or **ON**. If the change is made while the appliance is running the difference in the flame will be apparent. It is mandatory to pay particular care when selecting the most appropriate operating cycle for your installation. After the selection of the operating cycle a thorough cleaning of the brazier is mandatory.

#### 5.6 ROOM CONTROL: CONNECTION WITH THE ROOM CONTROL DEVICE (OPTIONAL)

See the specific manual for the ROOM CONTROL device (Optional).

#### 5.7 SHOW CRONO: ON-OFF PROGRAMMING DISPLAY

The appliance must be energised and the I/0 switch in position "1".

This function enables you to consult the programmed ON/OFF cycles carried out through the CHRONO function (See Para. 5.4). Proceed as follows to view the programmed ON/OFF cycles:

1) Press the **Menu Button** five times quickly until the SHOW CRONO screen appears, and after a few seconds the following screen will appear:



DAYS • 10:45 MON

2) Press the left Scroll Button repeatedly to scroll and consult the programmings for all the days of the week.3)

Caution: the on-off programmings cannot be modified from the "SHOW CRONO" menu, this menu is used only for viewing the programs that have been entered and/or edited through the "CRONO" menu.



# 6 - USE OF THE APPLIANCE

#### **6.1 DESCRIPTION OF THE OPERATING STAGES**

START: has a duration of approx. 20 minutes, during this phase the appliance is programmed to light the flame. The appliance will not accept power variations in the firebox. If the appliance does not start up correctly it could be due to one of the following factors: cleanliness of the generator, smoke exhaust particularly cold, sudden surges and drops in the electric power supply, fuel is too moist or does not comply with the specifications (see dedicated paragraph).

WORK: the appliance works according to the combustion and ventilation power set by the user. The spark plug is dead.

OFF: has a duration of approx. 25 minutes. In this phase the appliance is switched off until a new "on" phase is initiated. The aim is to make the pellet embers in the brazier die out and cool the appliance. The room fan and the smoke suction unit continue to operate as required. In any case after approx. 25 minutes the appliance goes into stand-by mode.

#### **6.2 SWITCHING ON THE STOVE**



Before using the appliance check that all the movable parts are correctly fitted. Also remove any labels and stickers from the glass to avoid that permanent traces remain on the surfaces. Verify that the electric connections have been made perfectly. Check also that the firebox door is firmly closed.

Then carry out the following operations:

- Power up the appliance and turn the I/0 switch to position "I". 1)
- 2) Ensure that the appliance is connected to the smoke exhaust: we recommend against using aluminium tubes and we recommend always using sealing gaskets. Further information is given in paragraph dedicated to the smoke discharge of this use and maintenance booklet.
- Load the pellets into the hopper. 3)
- 4) Press the Flame Button to begin the start up phase and the word START will appear on the display.

Press the Flame Button repeatedly to set the desired combustion power which will only activate at the end of the START cycle which takes roughly 20 minutes.

In this stage any level of combustion power set by the user is ignored to meet the correct power values set by the manufacturer. Press the Ventilation button repeatedly to set the six fan speeds; the fan will only activate once the smoke has reached the preset temperature.

The electrical heater will start to overheat and only after a few minutes the first lot of pellets will start dropping into the brazier. This occurs because the screw feeder has to fill up because it is completely empty. At the first start up the appliance may require the starting sequence to be performed twice for the reason explained above: before starting up the second time empty and vacuum out the brazier.



ATTENTION: During the START sequence the appliance ignores all the combustion power changes that are transmitted to it or set on it. Once this phase has ended the word WORK appears on the display.

When the machine is in the running phase the combustion can be changed manually.



ATTENTION: If the appliance does not start up correctly check that the brazier and electric heater are clean. It is very important to ensure that the tube lodging of the electric heater is clean; there must be no deposits or dust. It is recommended to use an efficient ash vacuum cleaner but only when the appliance has cooled down.

#### **6.3 COMBUSTION AND VENTILATION ADJUSTMENTS**

Set the combustion power of the stove by acting on the Flamebuttonor on the supplied infrared remote control. The combustion power regulates the pellet drop. The selected combustion power level will appear on the display.

Set the ventilation speed of the stove by acting on the Ventilation Button or using the supplied infrared remote control. The ventilation speed regulates the number of fan revolutions. A slight vibration of the stove is guite normal when it is running. The selected ventilation power level will appear on the display.

#### **6.4 INFRARED REMOTE CONTROL**

A practical infrared control is supplied with the appliance: act on the blue button to regulate the ventilation power, act on the grey button to start up, adjust the combustion power and shut off the appliance.

#### 6.5 CHANNELLING (ONLY FOR PLUS VERSIONS)

Prescriptions for correct channelling:

- Use pipes with smooth inner surfaces capable of resisting continuous temperatures higher than 150°C.



- It is prohibited to use plastic or internally corrugated pipes.
- It is prohibited to position sections with a downward slope.
- Reduce the number of bends as much as possible (maximum 4).
- Insulate pipes with mineral wool resistant to at least 150°C.
- Maintain a distance of at least 20 cm between the channelling pipes and any inflammable materials.
- It is prohibited to reduce any pipe sections, even partially, with respect to the outlet diameter.
- It is prohibited to install devices that could completely close off the channelling.

The appliance is supplied with both fittings already mounted. To choose where to channel the hot air flow act on the rear controls as shown in the following picture:



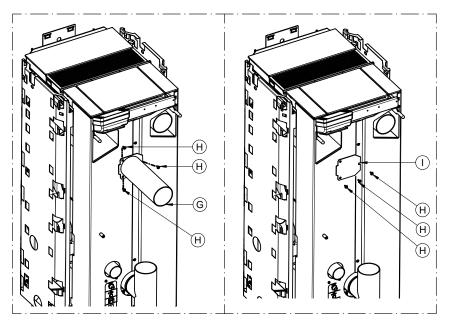
Legenda	ney
ARIA DALL'ALTO	AIR FROM ABOVE
ARIA CANALIZZATA	CHANNELLED HOT AIR
ARIA FRONTALE	AIR FROM THE FRONT

ATTENTION: in case of channelling of only one outlet unscrew the screws (H) using a suitable screwdriver and remove the channeling pipe (G) not used. Close the outlet using the cover (I) supplied, fastening it with the screws (H) just removed.



ATTENTION: The rear controls may reach very high temperatures during operation. Use suitable protection to prevent burns.

ATTENTION: if one or both of the channelling collars are not used to channel the air through the special tubes, it is mandatory to check the back of the appliance to make sure that there are no objects and /or materials that could be damaged by the heat or are heat-sensitive.



When using pipes with different lengths it is advisable to insert adjusters to control the air flow by partially closing it. Otherwise the shorter channelling may receive much more air than the long one.

#### 6.6 SWITCHING OFF THE APPLIANCE

To switch off the appliance press the Flame Button until the power bars on the display disappear and the text OFF appears.



DO NOT disconnect the generator from the electric power socket to switch it off. This operation generates smoke that could not be evacuated because of the construction characteristics of the flue outlet. The OFF procedure lasts for approx. 25 minutes.



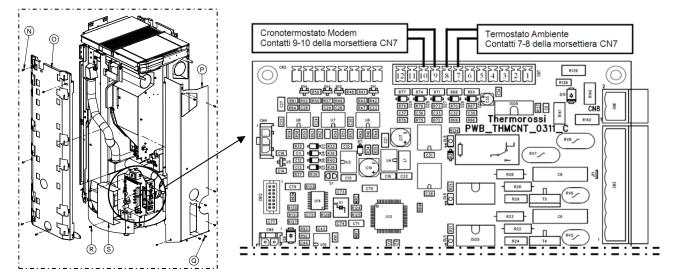


# 7 ADDITIONAL ROOM TEMPERATURE THERMOSTAT / ADDITIONAL CHRONOTHERMOSTAT

Your appliance is already fitted with all the temperature adjustment and programming functions. However, it is possible to connect the appliance to a room temperature thermostat or an additional chronothermostat:

---> for an additional room temperature thermostat connect terminals 7-8 directly to terminal bock CN7 on the board as illustrated in the figure below.

---> for an additional chronothermostat – modem connect terminals 9-10 directly to terminal bock CN7 on the board as illustrated in the figure below.



Legenda	Кеу
Cronotermostato Modem	Chronothermostat - Modem
Contatti 9/10 della Morsettiera CN7	Contacts 9/10 of the terminal block CN7
Termostato ambiente	Room temperature thermostat
Contatti 7/8 della Morsettiera CN7	Contacts 7/8 of the terminal block CN7



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.

The contacts are defined as "FREE" contacts and they must never be supplied with voltage. It is strictly prohibited to supply any tension whatsoever to the above-mentioned terminals as this would permanently damage the control board; such damage is not covered by WARRANTY.

#### 7.1 OPERATING WITH THE ADDITIONAL ROOM TEMPERATURE THERMOSTAT (not supplied)

An additional room temperature thermostat can be installed by connecting it to the board as shown in the figure. The operating principle is as follows:

-When the room temperature reaches the set temperature (only during the WORK phase) the thermostat closes the contact and the appliance shifts to the minimum room fan speed and minimum combustion power. This condition is shown on the display with the flashing of the bar indicating ventilation and the bar indicating combustion: the appliance overrides all prompted commands. By using the room temperature thermostat the appliance does not shut down, therefore electrical energy consumption is kept to the minimum and the heater has a longer life. When the room temperature drops the thermostat opens the contact and the appliance returns to its original position in terms of thermal power and ventilation. In this position the appliance can be started up automatically via the programming.



**ATTENTION:** Use N.O. (normally open) contacts for the connection to the additional room temperature thermostat. The thermostat must have a thermal hysteresis that is not less than 2°C.

If you use the Room Control device you cannot use the additional room temperature thermostat.

#### 7.2 OPERATING WITH THE ADDITIONAL CHRONOTHERMOSTAT (not supplied)



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As an alternative to the room temperature thermostat, a chronothermostat can be installed by connecting it to the board as shown in the figure. This function is particularly suitable for people with impaired vision. Using this output when the chronothermostat contact closes the START cycle begins, whereas when the contact opens the OFF cycle begins. The operating level at start up (combustion power - fan speed) is the same as the level used before the last time the appliance shut down.

ATTENTION: when using the chronothermostat program up to a maximum of 3 on-off cycles without setting the desired target temperature or set it at the highest possible value for the chronothermostat.

At the end of the preset time the contact will open and perform the appliance shut down process. Similarly at the preset startup time the contact will close and initiate the START cycle. The chronothermostat can be used to program start up and shut down times and dates for the appliance. It is therefore possible to program a momentary shut down of the appliance according to the preset time. **Do not shut down the appliance according to the room temperature**.

It is mandatory to deactivate the "Crono" symbol on the display if an external chronothermostat is used.

**ATTENTION:** The manufacturer denies all responsibility for the life of the electrical heater if subjected to excessive startups. It is recommended not to set the desired room temperature or to set it at the highest possible value for the chronothermostat in order to avert this danger.



ATTENTION: Use N.O. (normally open) contacts for the connection to the chronothermostat.

**ATTENTION:** In the event of connections to the chronothermostat Thermorossi shall not be held responsible for the appliance not starting up, smoke leaks and breakage of the lighting component. In the event of a programmed cycle on always ensure that the brazier is clean and seated correctly in its lodging. A maximum of 3 on-off cycles per day are permitted. The chronothermostat must have a thermal hysteresis that is not less than 2°C.

If you use the Room Control device in Switch Mode you cannot use the additional room temperature thermostat.



## 8 - CLEANING AND MAINTENANCE

#### 8.1 FOREWORD



Before beginning any maintenance operation ensure that the appliance is switched OFF and disconnected from the electric power socket. Your appliance, being a pellet-fuelled appliance, requires regular general controls and cleaning. This will guarantee regular operation and optimal output at all times. 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 objects and to persons using the appliance.



Attention: 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.

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**



Due to the frequent cases we have encountered of the use of poor quality pellets, users are advised that it is mandatory to use, in this appliance, pellets certified in accordance with the regulations in force for the Italy UNI market or for the European EN market. If this requirement is not observed the result will be unsuitable combustion, consequently, the electrical and mechanical components could be subjected to very high temperatures and will not be covered by warranty.

# Unless otherwise instructed, the operations described below are mandatory and not postponable beyond the specified times.

#### EVERY DAY:

• Remove the ash pan and the brazier assembly by pulling them outwards. Clean out all the combustion residues from the brazier and the compartment A1 (Figures 1, 2 and 3) then return the brazier and the Pellet Power to their positions. To open and close the door use the special handle provided. To guarantee correct operation of the appliance, carefully clean the area around the spark plug.

ATTENTION: make sure, before every start up, that the brazier is clean and in the correct position. If necessary clean the burner more thoroughly using an ash vacuum device.

#### EVERY 3 DAYS:

- Check that the holes of the burner and the heater lodging channels are completely sediment-free. If necessary vacuum and clean (Figure 1, 2 and 3). Remove, if present, all silica agglomerates; they indicate poor quality fuel.
- Empty the ash from the pan (Figure 1)
- Lift and drop the tube scraper rods several times using the special handle provided (figure 4).

#### EVERY 7 DAYS:

• Inspect and clean the opening indicated as C1 (Figure 5). To access the vent open the door, remove the ash pan and lift the flap. When closing it ensure that nothing is preventing it from closing correctly.

#### **EVERY MONTH:**

- Inspect and clean the Tee-joint of the smoke exhaust pipe.
- Vacuum, when empty, the saw dust on the bottom of the pellet tank.
- Check that the smoke exhaust pipe is free from any ash deposits, above all in the initial parts that could have a smaller section.
- Remove the back of the combustion chamber (figure 6, 7, 8) by lifting it and rotating it outwards and clean the tubes and smoke passages thoroughly.

#### AT LEAST TWICE 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.

#### AT THE END OF THE WINTER SEASON (or whenever necessary)

• Carry out a thorough cleaning of the complete firebox and the various compartments of the appliance, using brushes and vacuum



A vacuum device simplifies the ash cleaning procedure. The front and side casings must be cleaned when the heater is cold using a soft cloth and water. It is also normal to find partially or totally unburned pellets in the ash pan. When the combustion chamber door is opened it is normal for the ash to drop to the floor.



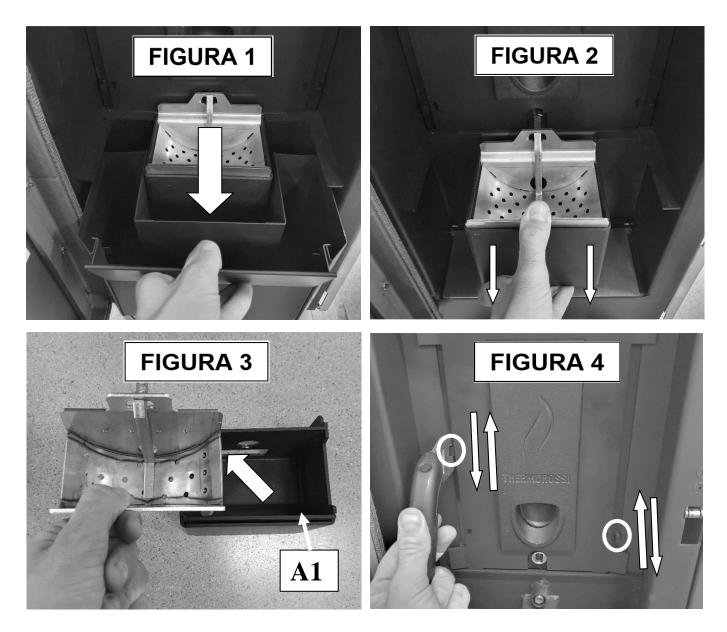
<u>ATTENTION</u>: after cleaning it is mandatory to carefully check that the combustion chamber door is firmly closed and airtight.



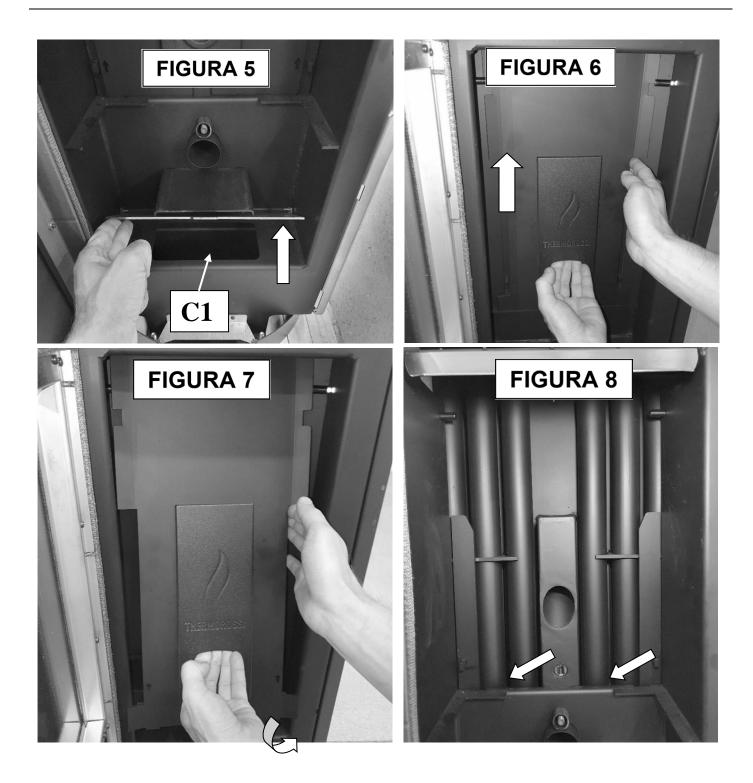
<u>ATTENTION</u>: the generator, the smoke channel and flue outlet must be cleaned in accordance with the specifications described above and use of inflammable products is strictly forbidden: using inflammable products can create dangerous situations. Failure to carry out the necessary maintenance or if only partial maintenance is carried out will affect the correct functioning of the appliance. Any problems resulting from total or partial lack of cleaning or maintenance will immediately void the warranty.



<u>ATTENTION</u>: if the appliance remains inactive and/or unused for more than one month, it is necessary to clean the entire appliance thoroughly, as well as the smoke discharge tube and the flue outlet, to remove any obstructions (e.g. birds' nests in the chimney cap) before restarting.







Legenda	Key
FIGURA	FIGURE

#### 8.3 BATTERY REPLACEMENT FOR INFRARED REMOTE CONTROL

When the infrared remote control does not send out the transmission signal (led on), the battery must be replaced. Use a Phillips screwdriver of proper size, to separate the half shells and replace the battery. The dead battery must be disposed of safely.

#### 8.4 REPLACING THE BUFFER BATTERY OF THE CONTROL PANEL



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Inside the control panel there is a buffer battery type CR1632. When the time and programming are not being memorised, then the battery needs replacing. Proceed as follows:

- Switch off the appliance and unplug the power cable from the power source.
- Remove the cover by pressing your fingers towards the centre in order to press the two tabs **A** and **B** as illustrated in the following figure.
- Replace the battery. The dead battery must be disposed of in compliance with the regulations in force.





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.



# 9 - SMOKE DISCHARGE TUBE AND VENTILATION OF THE ROOMS

#### 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 flue outlet must comply with UNI 10683 and be built in accordance with the requirements set out in Italian Decree No. 37 of 22 January 2008, respecting the reference values expressed in the standard; in particular, the flue outlet must conform to fire prevention standards (it must therefore be capable of withstanding a possible fire action: in such a situation contact the fire department immediately). This chapter is not intended to replace UNI 7129, UNI 10683 and EN 14785 standards to which it refers. The qualified installer must in any case be fully aware of these standards and any amending versions. It is important to carefully follow the instructions included in these standards: failure to observe these instructions could cause serious damage to the product, to the system, to objects and to persons using the generator.

#### 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 flow to guarantee air for the appliance for the combustion process and for ventilation of the room. The natural air flow must take place directly through permanent openings on the outer walls or through

and for ventilation of the room. The natural air flow must take place directly through permanent openings on the outer v single or multiple ventilation ducting.

The ventilating air must come from outside and if possible, away from sources of pollution. The openings in the walls must comply with the following conditions:

- have an unobstructed section of at least 6cm<sup>2</sup> for each Kw of installed thermal power, with a minimum limit of 100cm<sup>2</sup>;
- 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%.

#### 9.2.2 VENTILATION OF THE ADJACENT ROOMS

The air flow can also be obtained from an adjacent room as long as:

- the adjoining room is equipped with direct ventilation in compliance with the paragraphs described above;
- only appliances connected to the exhaust pipe are installed in the room that is ventilated;
- the adjoining room is not used as a bedroom or a common area of the building;
- the adjacent room is not a room with a fire hazard, such as storage sheds, garages, combustible material store rooms, etc ...;

• the adjoining room does not become a vacuum compared to the room to be ventilated due to a reverse draught effect (the reverse draught can be caused by the presence in the room of either another heating appliance running on any type of fuel, a fireplace, or any suction device, which have not been provided with an air intake)

• the air flow from the adjoining room to the room to be ventilated is unobstructed through the permanent apertures having an overall net section of no less than that indicated above. These apertures can be obtained by enlarging the space between the door and the floor.

#### 9.3 SMOKE OUTLET



The smoke channel, the exhaust pipe, chimney and flue outlet (defined as the system for the evacuation of combustion products), are parts of the heating system and they must comply with the legislative requirements of the Ministerial Decree DM 37/08 (ex Italian Law 46/90) and to the applicable specific installation regulations, according to the type of fuel. Fireplaces, stoves and barbecues must not be installed in locations where gas appliances type A and type B are present and operating (for the classification see UNI 10642 and UNI 7129). The connection between the appliance and the flue outlet must only receive exhaust from one heat generator.

#### 9.3.1 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...), constructed or specified by a single manufacturer and CE certified in accordance with the applicable standard;

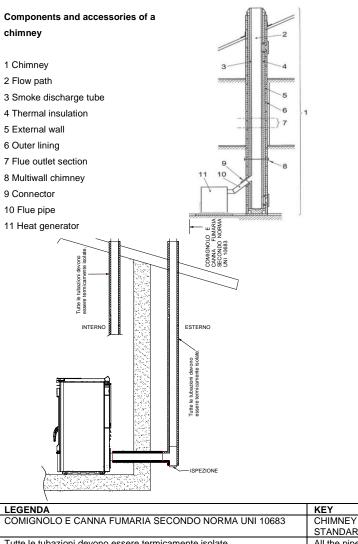
• Composite chimney: Chimney installed or constructed on site using a combination of compatible components such as flue liner (wall directly in contact with the smoke), and possibly also insulation and outer casing (wall) that may be supplied by different manufacturers or by the same manufacturer.



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• Relining: operation involving the installation of a specific pipe in an existing shaft (even if newly constructed) made of noncombustible materials, free from obstructions and for single use.

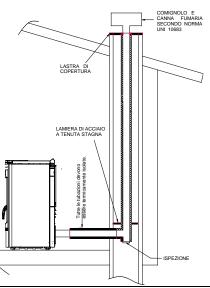
#### 9.3.2 FLUE OUTLET / FLUE SYSTEM COMPONENTS





Every chimney must have minimum number of components as laid down by standard UNI EN 10683 which are also indicated in the figure on the left.

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.



LEGENDA	KEY
COMIGNOLO E CANNA FUMARIA SECONDO NORMA UNI 10683	CHIMNEY CAP AND FLUE OUTLET ACCORDING TO UNI 10683
	STANDARD
Tutte le tubazioni devono essere termicamente isolate	All the pipes must be thermally insulated
ISPEZIONE	INSPECTION
INTERNO	INTERNAL
ESTERNO	EXTERNAL
LASTRA DI COPERTURA	COVER SLAB
LAMIERA DI ACCIAIO A TENUTA STAGNA	WATERTIGHT STEEL SHEET
2 metri MAX	2 metres MAX
Pendenza 3% - 5%	Slope 3-5%
ALTEZZA SUPERIORE A 5 m	HEIGHT MORE THAN 5 m



#### 9.3.3 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 shown in the following figures is the best solution to ensure the discharge of smoke even when the fan is not operational, such as for example if there is an electrical power failure. Failure to comply with these requirements may result in accumulation of smoke inside the firebox with possible explosions and/or smoke escaping into the room. The figures illustrate the best solution for discharging the smoke out through the roof or into the flue outlet. 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.

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.

COMIGNOLO E CANNA SECONDO NORMA UN 2 metri MA> 723% ALTEZZA SUPERIORE A 5 meti ISPEZIONE ISPEZIC Tutte le tub oni de AAX AAX SPEZIONE

Z

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. The appliance functions with the combustion chamber in a vacuum, while the discharge of smoke to the flue outlet has a slight pressure, consequently it is imperative to ensure that the discharge system is hermetically sealed. The smoke discharge tube must be made from suitable materials such as for example: porcelain-coated steel tubes, and the various fittings sealed with red silicone (resistant to 350°C). The outer casing of the tube must be made with insulating material (mineral wool, ceramic fiber) 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 mandatory 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. IF THE CHIMNEY CATCHES FIRE DO NOT HESITATE TO CALL THE FIRE BRIGADE IMMEDIATELY.



## 10 – ALARMS

The appliance is programmed to communicate 7 alarms.



**ATTENTION:** The appearance of one of the alarms described below, does not necessarily imply a defect in the product, but simply Thermorossi S.p.A.'s intention to inform the user of the need for corrective actions in order to guarantee maximum safety, greater reliability and high performance of the appliance.

The alarms are listed below:



This meassge appears when during the **WORK** stage the temperature of the smoke drops below a preset threshold: this means that the appliance is shutting off due to lack of pellets. To reset the alarm the power to the appliance must be switched off then on by turning the switch 0-1 located on the power panel. It is mandatory to empty and clean the brazier, and then to fill the pellet tank before repeating the START phase. It could be that the screw feeder is completely empty, so the start up sequence may have to be carried out twice.



This appears if, after the **START** sequence, the smoke has not reached a suitable temperature. To reset the alarm the power to the appliance must be switched off then on by turning the switch 0-1 located on the power panel.

It is mandatory to empty and clean the brazier before repeating the START phase: pellets emptied from the brazier must not be fed into the tank.



This occurs when the smoke outlet is partially blocked. To reset the alarm the power to the appliance must be switched off then on by turning the switch 0-1 located on the power panel.

Before restarting the appliance check for any irregularities such as blocked flue outlet, open firebox door, very dirty appliance. Do not start up the appliance until the problem has been identified and solved

It is mandatory to empty and clean the brazier before repeating the START phase:



This appears when the appliance overheats. After having verified and solved the causes for the overtemperature, unscrew the plastic cover of the reset thermostat located on the power/control panel and press the button (the appliance can only be reset when its temperature has dropped considerably). To reset the alarm the power to the appliance must be switched off then on by turning the switch 0-1 located on the power panel. It is mandatory to empty and clean the brazier before repeating the START phase:



Appears when the smoke thermocouple is damaged or absent. Contact the technical assistance service



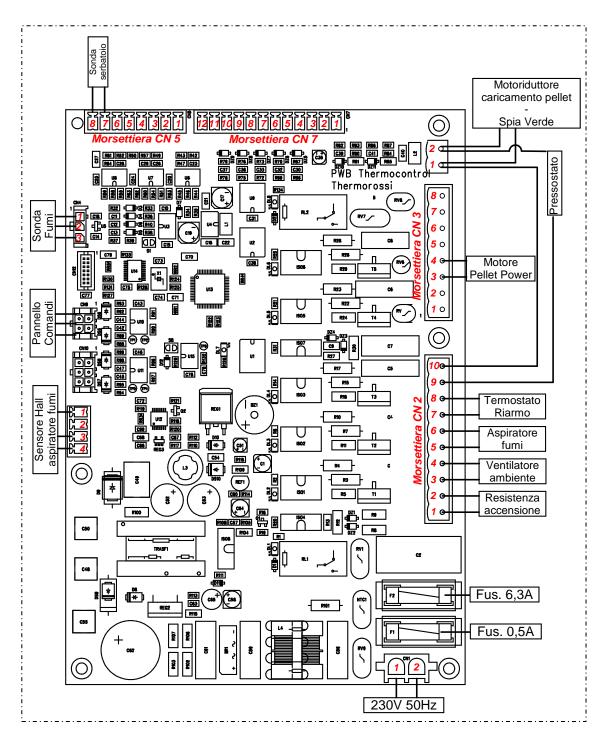
Activates when the smoke suction unit revolution sensor detects a very slow rotation speed: check the flue pipes and the flue outlet. If the problem persists contact the technical assistance service.



Trips when the smoke suction unit revolution sensor fails to detect any rotation. The smoke suction unit or the rotation sensor are not working. Contact the technical assistance service.



# **11 - ELECTRICAL WIRING**



LEGENDA	KEY
Sonda serbatoio	Tank sensor
Morsettiera CN 5 / 7	Terminal block CN 5 / 7
Motoriduttore caricamento pellet - Spia Verde	Pellet loading gearmotor - Green indicator light
Sonda Fumi	Smoke sensor
Pannello Comandi	Control panel
Sensore Hall aspiratore fumi	Hall Sensor smoke suction unit
Pressostato	Pressure switch
Motore Pellet Power	Pellet Power Motor
Termostato Riarmo	Reset thermostat



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Aspiratore fumi	Smoke suction unit
Ventilatore ambiente	Room fan
Resistenza accensione	Lighting heater
Fus. 6,3A / 0,5A	Fuse 6.3A / 0.5A



# **12 – INFORMATION FOR THE SKILLED TECHNICIAN**

#### **12.1 MAIN COMPONENTS AND THEIR OPERATION**

#### SMOKE PRESSURE SWITCH

This is a safety switch that stops the screw feeder motor whenever necessary. The main cause for the pressure switch tripping is a blocked flue outlet or smoke exhaust pipe. Note that it is strictly forbidden to apply any kind of mesh screen to the end of the pipe. When the holes of the mesh clog up they create a plug that trips the pressure switch which stops the pellet feeder.

#### SCREW FEEDER MOTOR

This motor is powered at regular on/off intervals controlled by a microprocessor. The operation of this motor is affected when:

-The motor's thermal cutout trips. -The pressure switch trips due to blocked smoke exhaust.

-Pellets finished. -Voluntary shut down of the appliance. -The manual reset thermostat trips at 125°C

#### ROOM FAN

Starts automatically as soon as the smoke thermocouple detects a suitable smoke temperature. Similarly it stops when the fuel is finished or during a voluntary shut down when the smoke thermocouple detects a suitable temperature for activating (to a maximum of 20 minutes).

#### SMOKE SUCTION UNIT

This is activated when the appliance starts up. In the first minute it «washes» the smoke discharge tube, that is, it functions at maximum working rate. Once this time has elapsed it self-adjusts to the optimal speed. The exhaust continues to operate for approximately twenty minutes from the time the appliance is switched off to allow for the evacuation of all the smoke and for safety purposes.

#### THERMOCOUPLE

Its function is to verify the temperature of the combustion smoke: when the smoke temperature exceeds a certain value it indicates that the appliance is on. Similarly, when the temperature drops below a certain limit it causes the presence of the message NO PELLET on the display.

#### TANK SAFETY SENSOR

This probe activates as soon as the temperature around the pellet tank rises above a certain threshold, which immediately signals the room fan to start operating.

#### 125°C MANUAL RESET THERMOSTAT

When the temperature exceeds 125°C the pellet feed screw shuts down. Display shows the inscription "AL T max". Once the causes for the overtemperature have been identified and remedied the appliance can be reactivated by unscrewing the plastic cover of the thermostat located on the power panel and pressing the button (the appliance temperature must have considerably dropped).

#### GLOW PLUG

It is activated in the START phase. Heats the air to 800°C, which assist the first combustion of the pellets present in the brazier. The spark plug is guaranteed for a period of 6 months.

#### **12.2 REQUIREMENTS NECESSARY FOR CORRECT OPERATION**

• Read this use and maintenance booklet.

• The appliance must always be switched off first from the control panel. It is forbidden to switch off the appliance by means of the main switch 0/l located in the power panel.

• The appliance must never be disconnected from the electrical power supply and the power supply must never be cut off during normal operation. Whenever the appliance is deliberately disconnected from the electric power supply smoke could be emitted into the room.

• Do not install the appliance with horizontal wall outlets only: Evacuation of products of combustion by natural draught must always be guaranteed as well. Unsuitable installation of the outlets could cause a forced shut down of the appliance due to overpressure of the exhaust smoke caused by a gust of wind.

• At the first startup, run the appliance at the maximum power and minimum ventilation for at least ten hours in a well-ventilated room, in order to dispose of the smoke generated by the complete dryness and baking of the silicates contained in the enamel coating of the combustion chamber.

• Do not install a grill or outlet terminal that could slow down the flow of the combustion gases: this would obviously cause the appliance to malfunction.

- Keep the appliance clean and check the burner as described in this use and maintenance guide.
- Clean the smoke outlet regularly.
- Use good quality pellets: use of poor pellets can result in up to 50% less efficiency.
- The pellets must be stored in a well-ventilated, dry place.
- The appliance door must always remain closed during normal operation.
- Do not touch hot outer surfaces, unless with special equipment.



Do not pour the pellets or other substances directly into the brazier.Keep fuel and inflammable materials at a suitable distance.

• Use only original spare parts supplied by the manufacturer.

#### **12.3 TROUBLESHOOTING CAUSE-SOLUTION**

PROBLEM	POSSIBLE CAUSE	SOLUTION
	PELLET TANK IS EMPTY THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>NO PELLET</b> "	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN FILL UP THE TANK WITH PELLETS
	PELLET SCREW FEEDER BLOCKED BY FOREIGN OBJECT SUCH AS NAIL, NYLON, PIECE OF WOOD	CUT OFF THE POWER AND REMOVE THE FOREIGN OBJECT FROM THE TANK.
	THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY <b>"NO PELLET"</b> SMOKE EXHAUST NOT FREE, OR WITH TERMINAL THAT OBSTRUCTS THE PASSAGE OF SMOKE	CLEAN THE BRAZIER AS IN DICATED IN THIS USE AND MAINTENANCE GUIDE, THEN CHECK THE SMOKE EXHAUST
	THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY "SMOKE NO OUT"	AS IT COULD BE DIRTY OR BLOCKED.
PELLETS DO NOT DROP INTO THE BRAZIER	OUTLET TERMINAL CLOGGED BECAUSE A GRILL OR TERMINAL HAS BEEN INSERTED WHICH PREVENTS THE FREE PASSAGE OF SMOKE THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>SMOKE NO OUT</b> "	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN REMOVE THE TERMINAL AND REPLACE IT WITH A MORE SUITABLE ONE.
	A LONG GUST OF WIND HAS CAUSED THE APPLIANCE TO GO INTO SAFETY MODE. THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY <b>"SMOKE NO OUT"</b>	CLEAN THE BRAZIER AS DESCRIBED IN THIS USE AND MAINTENANCE GUIDE, DE-ENERGISE THE APPLIANCE THEN POWER UP AGAIN
	THE PELLET FEED MOTOR IS NOT WORKING THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>NO PELLET</b> "	REPLACE THE PELLET FEED MOTOR
	THE RESET THERMOSTAT TRIPS AND LOCKS THE GEARMOTOR THE " <b>ALARM T.MAX</b> " ALARM IS SHOWN ON THE DISPLAY	AFTER HAVING VERIFIED AND FOUND A SOLUTION FOR THE OVERTEMPERATURE PROBLEM, WAIT UNTIL THE APPLIANCE COOLS DOWN AND RESET THE THERMOSTAT.
	THE DOOR OF THE COMBUSTION CHAMBER OF THE APPLIANCE IS OPEN THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY "SMOKE NO OUT"	CLOSE THE DOOR OF THE COMBUSTION CHAMBER
	SMOKE EXHAUST NOT FREE, OR WITH TERMINAL THAT OBSTRUCTS THE PASSAGE OF SMOKE	CLEAN THE BRAZIER AS IN DICATED IN THIS USE AND MAINTENANCE GUIDE, THEN CHECK THE SMOKE EXHAUST AS IT COULD BE DIRTY OR BLOCKED OR REMOVE THE TERMINAL AND REPLACE IT WITH A MORE SUITABLE ONE.
THE APPLIANCE ACCUMULATES PELLETS	THE BRAZIER IS VERY DIRTY.	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE
IN THE BRAZIER WHILE OPERATING	THE DOOR OF THE COMBUSTION CHAMBER OF THE APPLIANCE IS NOT TIGHT, THE GASKET IS WORN	CLOSE THE DOOR OF THE COMBUSTION CHAMBER FIRMLY / REPLACE THE GASKET
	PELLET WITH ASH DEPOSIT GREATER THAN STANDARD OR OF DUBIOUS QUALITY	CLEAN THE BRAZIER AND SET OPERATING PROGRAM LEVEL 2, AS INSTRUCTED IN THIS USE AND MAINTENANCE GUIDE. IF THIS DOES NOT SUFFICE, CHANGE TO A BETTER QUALITY OF PELLETS
	OCCURS THE FIRST TIME THE APPLIANCE IS SWITCHED ON AS THE SILICONE PAINT IS BEING DRIED	RUN THE APPLIANCE AT HIGH POWER LEVELS FOR A FEW DAYS
	THE SMOKE EXHAUST IS NOT SEALED CORRECTLY	CHECK THE TIGHTNESS OF THE FLUE OUTLET AND IN PARTICULAR THE CONDITION OF THE EXHAUST PIPES AND THE GASKETS
THE APPLIANCE LEAKS SMOKE INTO THE ROOM	IF THE APPLIANCE STARTS TO SMOKE AFTER 25 MINUTES: DIRTY BURNER, VERY DELAYED START	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE
	IF THE APPLIANCE STARTS TO SMOKE AFTER 25 MINUTES: DELAYED START BECAUSE THE SCREW FEEDER WAS EMPTY	CLEAN THE BAZIER AS INDICATED IN THIS MANUAL, THEN FILL UP THE TANK WITH PELLETS
	OVERPRESSURE RELIEF VALVE TRIPPING	MAKE SURE THAT ALL THE CLEANING, ROUTINE AND EXTRAORDINARY MAINTENANCE INSTRUCTIONS SET OUT IN THIS USE AND MAINTENANCE GUIDE ARE STRICTLY ADHERED TO
THE APPLIANCE ENTERS ALARM MODE A FEW	DELAYED START BECAUSE THE SCREW FEEDER IS EMPTY THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>FAILED START</b> "	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN FILL UP THE TANK WITH PELLETS
MINUTES AFTER THE START SEQUENCE HAS ENDED	START UP HAS BEEN GREATLY DELAYED BECAUSE THE BRAZIER IS DIRTY THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY "FAILED START"	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN FILL UP THE TANK WITH PELLETS
	THE SPARK PLUG IS NOT WORKING THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>FAILED START</b> "	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN REPLACE THE SPARK PLUG
THE APPLIANCE DOES	THE PELLET TANK OR SCREW FEEDER IS EMPTY THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY "FAILED START"	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN FILL UP THE TANK WITH PELLETS
NOT START UP	EXCESSIVE DRAUGHT IN THE FLUE OUTLET THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY "FAILED START"	HAVE THE FLUE OUTLET DRAUGHT CHECKED
	THE HOLE OF THE SPARK PLUG IS CLOGGED WITH COMBUSTION RESIDUES	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE
	THE APPLIANCE ACCUMULATES PELLETS IN THE BRAZIER	CLEAN THE BRAZIER AND SET OPERATING PROGRAM LEVEL 2, AS INSTRUCTED IN THIS USE AND MAINTENANCE GUIDE. IF THIS DOES NOT SUFFICE, CHANGE TO A BETTER QUALITY OF PELLETS
THE GLASS IS COVERED	THE APPLIANCE OPERATES WITH FREQUENT ON-OFF CYCLES	THE APPLIANCE SHOULD RUN FOR LONGER PERIODS OF TIME TO REDUCE THE ON/OFF EVENTS
IN BLACK SOOT	THE FLUE OUTLET HAS POOR DRAUGHT	HAVE THE FLUE OUTLET DRAUGHT CHECKED AND IF NECESSARY MAKE THE APPROPRIATE MODIFICATIONS
	POOR QUALITY PELLETS	CLEAN THE BRAZIER AND SET OPERATING PROGRAM LEVEL 2, AS INSTRUCTED IN THIS USE AND MAINTENANCE GUIDE. IF THIS DOES NOT SUFFICE, CHANGE TO A BETTER QUALITY OF PELLETS



PROBLEM	POSSIBLE CAUSE	SOLUTION
	ROOM TEMPERATURE THERMOSTAT SET TOO LOW, APPLIANCE OPERATES INTERMITTENTLY	THE APPLIANCE NEEDS TO RUN FOR MORE HOURS AT A HIGHER POWER; SET A HIGHER ROOM TEMPERATURE
THE APPLIANCE DOES	THE ROOM IS TOO LARGE, THE WALLS ARE COLD	THE APPLIANCE SHOULD OPERATE FOR MORE TIME AND WITH MORE POWER
	POOR QUALITY PELLETS	CHANGE TO AN APPROVED TYPE AS INDICATED IN THIS USE AND MAINTENANCE GUIDE
	CEILINGS TOO HIGH OR PRESENCE OF STAIRS THAT DISPERSE THE HEAT ELSEWHERE.	SEPARATE THE SPACES OR RUN THE APPLIANCE AT HIGHER LEVELS FOR LONGER PERIODS OF TIME
THE APPLIANCE IS OFF BUT THERE ARE UNBURNT PELLETS IN	PELLETS HAVE RUN OUT IN THE TANK WHILE THE APPLIANCE IS RUNNING THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>NO PELLET"</b>	CLEAN THE BRAZIER AS INDICATED IN THIS USE AND MAINTENANCE GUIDE, THEN FILL UP THE TANK WITH PELLETS
THE BRAZIER	EXCESSIVE DRAUGHT IN THE FLUE OUTLET THE FOLLOWING ALARM IS SHOWN ON THE DISPLAY " <b>NO PELLET</b> "	HAVE THE FLUE OUTLET DRAUGHT CHECKED AND IF NECESSARY MAKE THE APPROPRIATE MODIFICATIONS
THE TIME DOES NOT REMAIN IN THE MEMORY	THE BUFFER BATTERY INSTALLED IN THE CONTROL PANEL IS EXHAUSTED	REPLACE THE BATTERY
	THE USER HAS NOT ENABLED IT	PRESS THE CLOCK BUTTON TO ENABLE IT AS INSTRUCTED IN THIS USE AND MAINTENANCE GUIDE
THE HOURLY PROGRAM	THE BUFFER BATTERY INSTALLED IN THE CONTROL PANEL IS EXHAUSTED	REPLACE THE BATTERY
	AN ERROR HAS BEEN MADE WITHIN THE PROGRAMMED CYCLE: A SHUT OFF TIME HAS BEEN SET BEFORE THE START TIME	VERIFY THE TIMES SET IN THE CRONO SCREEN
AFTER A FEW HOURS OF OPERATION A DEPOSIT APPEARS ON THE GLASS	THIS PROBLEM OCCURS IN NEW PRODUCTS AND IS CAUSED BY THE EVAPORATION OF SOLVENTS PRESENT IN THE SILICONE	CLEAN THE GLASS WITH A NON-ABRASIVE WET CLOTH

IF THE REMEDIES SUPPLIED HERE DO NOT SOLVE THE PROBLEM YOU HAVE ENCOUNTERED OR IF YOU REQWUIRE SPARE PARTS CONTACT AN AUTHORISED TECHNICAL SUPPORT CENTRE







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