

Report No. K11102013Z1
Residential space heating appliances
Initial type test
-Renaming-
DIN EN 14785
Type: **Ecofire Martina idro lux 10 kW**
Ecofire Martina idro lux 13 kW
Company: Palazzetti Lelio S.p.A.

2013



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Publication of page 2 is permitted.

The test results presented in this report refer solely to the test object stated.

Initial Type Testing
Residential space heating appliances fired by wood pellets
-Pellet stove-
DIN EN 14785: September 2006
Correction 1 DIN EN 14785:10.2007

Applicant/contractor:	Palazzetti Lelio S.p.A. Via Roveredo, 103 I-33080 Porcia (PN)
Type designation:	Ecofire Martina idro lux 10 kW Ecofire Martina idro lux 13 kW
Type of appliance:	Residential space heating appliance fired by wood pellets with water heat exchanger with fan assisted flue discharge with internal fuel hopper
Total heat output	Ecofire Martina idro lux 10 kW: 3,45 – 9,26 kW Ecofire Martina idro lux 13 kW: 3,45 – 13,51 kW
Space heat output	Ecofire Martina idro lux 10 kW: 1,04 – 1,60 kW Ecofire Martina idro lux 13 kW: 1,04 – 2,51 kW
Water heat output:	Ecofire Martina idro lux 13 kW: 2,41 – 7,66 kW Ecofire Martina idro lux 13 kW: 2,41 – 10,99 kW
Max. water pressure:	2,0 bar
Max. water temperature	80 °C
Fuels:	Wood pellets

Remarks: Room sealed appliance

Test results:

The technical requirements cl. 4-8 of the above mentioned standard are fulfilled. The local applicable installation conditions are to be observed.

The electrical safety cl. 5.9. of the standard was not a part of this initial type testing.

The presumption of conformity with the relevant European Directives could only be confirmed by full compliance with Annex ZA.

Additional details are documented in the initial report K5672011T1.

Cologne, 18.10.2013
432/pom

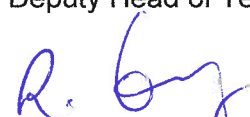
TÜV Rheinland Energie und Umwelt GmbH
Test Centre according to Construction Product
Regulation 305/2011(CPR)
Notified Body: 2456

Expert

Deputy Head of Test Centre



Dipl. Ing. A. Pomp



Dipl.-Ing. R. Verbert

Residential space heating appliances fired by wood pellets, Initial Type Test in accordance with the regulation 305/2011 conformity certification system no. 3

1. Task

The Test Centre for Energy Appliances was instructed to execute an renaming on the above mentioned pellet stoves.

Basic Palazzetti Lelio S.p.A. I-33080 Porcia (PN) Report K 5672011T1	New Palazzetti Lelio S.p.A. I-33080 Porcia (PN) Report K 11102013Z1
HP008S_0_10 HP008S_0_13	Ecofire Martina idro lux 10 kW Ecofire Martina idro lux 13 kW

2. Testing

The practical tests were carried out in 2,3,4 and 7 March 2011 on the stoves HP008S_0_10 and HP008S_0_13 by Palazzetti Lelio S.p.A. (report K5672011T1). Palazzetti Lelio S.p.A. ensures that modifications on the above mentioned products were not carried out.

2.1 Resume of test results

Type designation		Ecofire Martina idro lux 10 KW (see report K5672011T1)		
		Full load	Partial load	
Test fuel		Pellets		
Mass of the test fuel fired hourly	kg/h	2,02	0,75	-
Flue gas mass flow	g/s	5,9	3,8	-
Flue gas temperature	°C	86,5	54,6	-
Flue draught	mbar	0,12	0,10	0,12/0,10 +/-0,02
CO ₂ -Content	Vol.-%	11,7	6,56	-
O ₂ -Content	Vol.-%	8,83	14,18	-
CO-emission	ppm	23,3	110,4	-
CO-emission (at 13%-O ₂)	mg/m ³	19,2	162,0	500/750
NOx-content	ppm	65,8	41,9	-
NOx-content (at 13%-O ₂)	mg/m ³	88,6	100,8	-
Dust content (at 13%-O ₂)	mg/m ³	3,0	5,2	-
Total heat output	kW	9,26	3,45	-
Water heat output	kW	7,66	2,41	-
Space heat output	kW	1,6	1,04	-
Efficiency	%	95,31	95,61	75/70
Maximum temperatures at trihedron:				
- Right side	°C	33,2		65K over t _{ambient}
- Back side	°C	35,6		65K over t _{ambient}
- Bottom side	°C	30,6		65K over t _{ambient}
- Front side at 80 cm		22,4		65K over t _{ambient}
Distances:				
- Backside-Pelletstove	mm	200		
- Side-Pelletstove	mm	200		
Ambient temperature	°C	19,7		
Temp. in fuel hopper	°C	48,2		65K over t _{ambient}
Temp. operating tools	°C	35,2		35K over t _{ambient}
Soundness of the combustion circuit	m ³ /h	1,7		<2 m ³ /h
EN 613 (0,5 mbar)				

Type designation		Ecofire Martina idro lux 13 kW (see report K5672011T1)		
		Full load	Partial load	
Test fuel		Pellets		
Mass of the test fuel fired hourly	kg/h	2,97	0,75	-
Flue gas mass flow	g/s	7,8	3,8	-
Flue gas temperature	°C	106,4	54,6	-
Flue draught	mbar	0,12	0,10	0,12/0,10 +/-0,02
CO ₂ -Content	Vol.-%	13,03	6,56	-
O ₂ -Content	Vol.-%	7,45	14,18	-
CO-emission	ppm	24,4	110,4	-
CO-emission (at 13%-O ₂)	mg/m ³	18,0	162,0	500/750
NOx-content	ppm	84,1	41,9	-
NOx-content (at 13%-O ₂)	mg/m ³	102,1	100,8	-
Dust content (at 13%-O ₂)	mg/m ³	4,1	5,2	-
Total heat output	kW	13,51	3,45	-
Water heat output	kW	10,99	2,41	-
Space heat output	kW	2,51	1,04	-
Efficiency	%	94,68	95,61	75/70
Maximum temperatures at trihedron:				
- Right side	°C	33,2		65K over t _{ambient}
- Back side	°C	35,6		65K over t _{ambient}
- Bottom side	°C	30,6		65K over t _{ambient}
- Front side at 80 cm		22,4		65K over t _{ambient}
Distances:				
- Backside-Pelletstove	mm	200		
- Side-Pelletstove	mm	200		
Ambient temperature	°C	19,7		
Temp. in fuel hopper	°C	48,2		65K over t _{ambient}
Temp. operating tools	°C	35,2		35K over t _{ambient}
Soundness of the combustion circuit EN 613 (0,5 mbar)	m ³ /h	1,7		<2 m ³ /h

3. Statement of the test results

The appliances

Ecofire Martina idro lux 10 kW
Ecofire Martina idro lux 13 kW

of

Palazzetti Lelio S.p.A.

complies with the requirements acc. DIN EN 14785: September 2006. The results of the basic initial type test (see report K5672011T1) are not affected by the renaming.

4 Test documents

A1	Declaration of identical construction Martina idro lux 10 KW	29.08.2013
A2	Type label Martina idro Lux 10 KW	
A3	Drawing-Martina idro lux	805712280
A4	DOP-Ecofire martina idro lux 10kW	28.08.2013
A5	Declaration of identical construction Martina idro lux 13 KW	29.08.2013
A6	Type label Martina idro lux 13KW	
A7	Drawing-martina lux 13Kw	805712290
A8	DOP-Ecofire martina idro lux 13KW	28.08.2013

A01

DICHIARAZIONE: equivalenza apparecchio
DECLARATION: appliance equivalence

Il sottoscritto:
The undersigned:
nella funzione di:
in quality of (position in the company):
dell'azienda:
of the company:
con sede in:
located in :

PALAZZETTI RUBEN

Vice presidente del consiglio di
amministrazione
PALAZZETTI LELIO S.p.A.

PORCIA
Via Roveredo 103

dichiara che:
declares that:

L'apparecchio(i) tipo: HP008S_0_10
Appliance/s type:
Marchio commerciale Palazzetti
Trade Mark :
Comercializzatore: Palazzetti Lelio SpA
Marketer:

E' equivalente per prestazioni e costruzione al' apparecchio :
Is equivalent for performance and manufacturing to appliance:

L'apparecchio(i) tipo: Ecofire Martina idro lux 10 KW
Appliance/s type:

Marchio commerciale Palazzetti Lelio SpA
Trade Mark :

Le principali differenze sono :
The main differences are:

L'unica differenza è il type.
The only difference is the type name.
Il contenuto del manuale è identico.
The content of the manual is identical.

Data / Date: 29/08/2013

Firma / Signature:



A02



Palazzetti Lelio S.p.A. – Via Roveredo 103 – Porcia (PN)

DOP Nr. 004722672 – N.B. 2456 **EN 14785:2006**

Apparecchio per il riscaldamento domestico alimentato con pellet di legno

TYPE N. HP008S_0_10
Ecofire Martina idro lux 10 KW

Matr N° XXXXXXXXXX

Combustibile	F	Pellet di legno
Potenza termica max d'ingresso	Plmax	9,71 kW
Potenza termica min d'ingresso	Plmin	3,61 kW
Potenza termica nominale all'ambiente	Pmax	9,26 kW
Potenza termica ridotta all'ambiente	Pmin	3,45 kW
Potenza termica nominale all'acqua	Pwmax	7,66 kW
Potenza termica ridotta all'acqua	Pwmin	2,41 kW
Rendimento alla potenza nominale	EFFmax	95,31 %
Rendimento alla potenza ridotta	EFFmin	95,61 %
Emissioni di CO alla potenza nominale(13%O2)	COmax	19,2 mg/Nm ³
Emissioni di CO alla potenza ridotta(13%O2)	COmin	162 mg/Nm ³
Pressione idrica max d'esercizio	p	2 bar
Temperatura fumi	Tf	86,5 °C
Temperatura max dell'acqua	Twmax	80 °C
Distanza minima da materiali infiammabili	X1/X2/Y	800/200/200 mm
Tensione	V	230 V
Frequenza	F	50 Hz
Potenza max assorbita in funzionamento	Wmin	110 W
Potenza max assorbita in accensione	Wmax	400 W
Polveri	Dust	3 mg/Nm ³

Leggere e seguire le istruzioni di uso e manutenzione
Usare solo il combustibile raccomandato

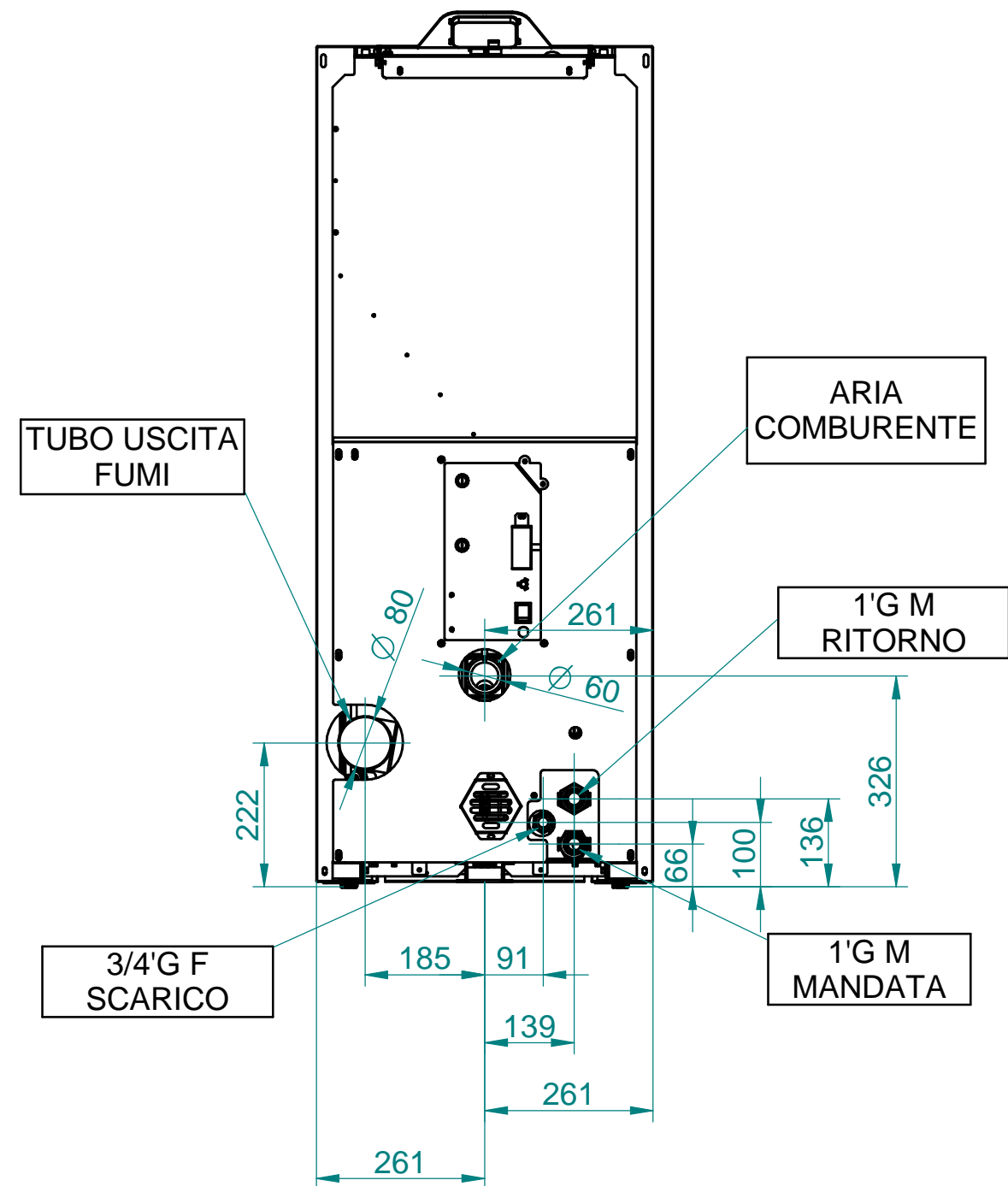
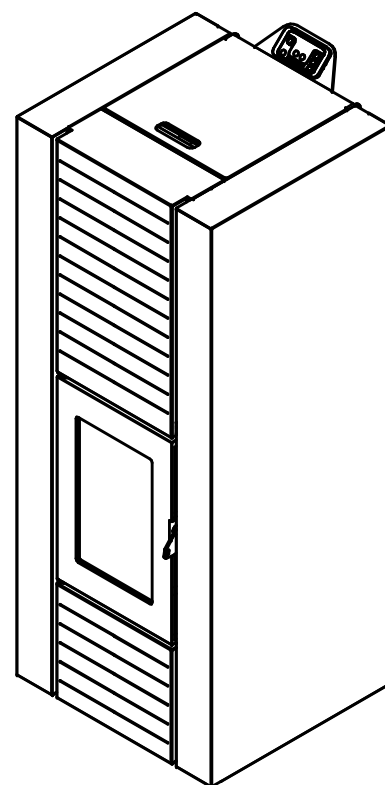
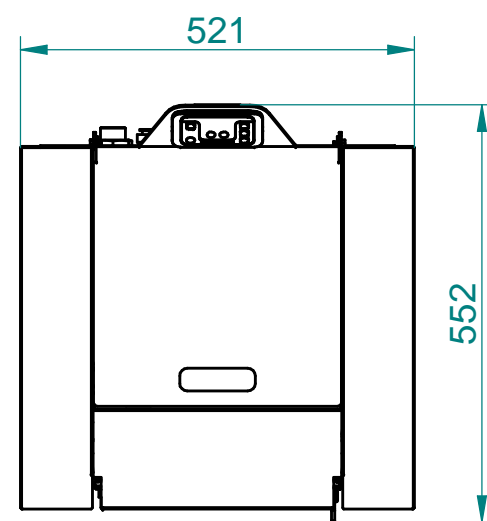
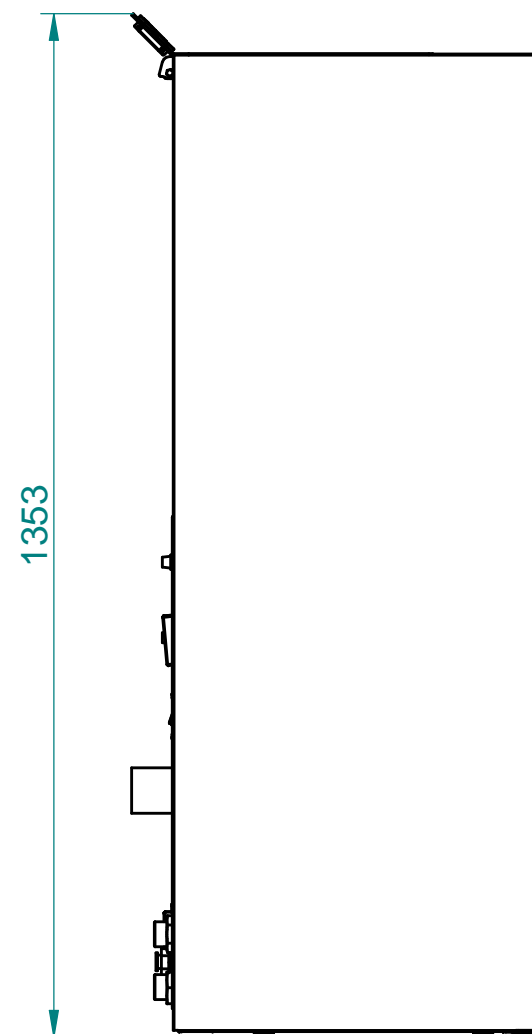
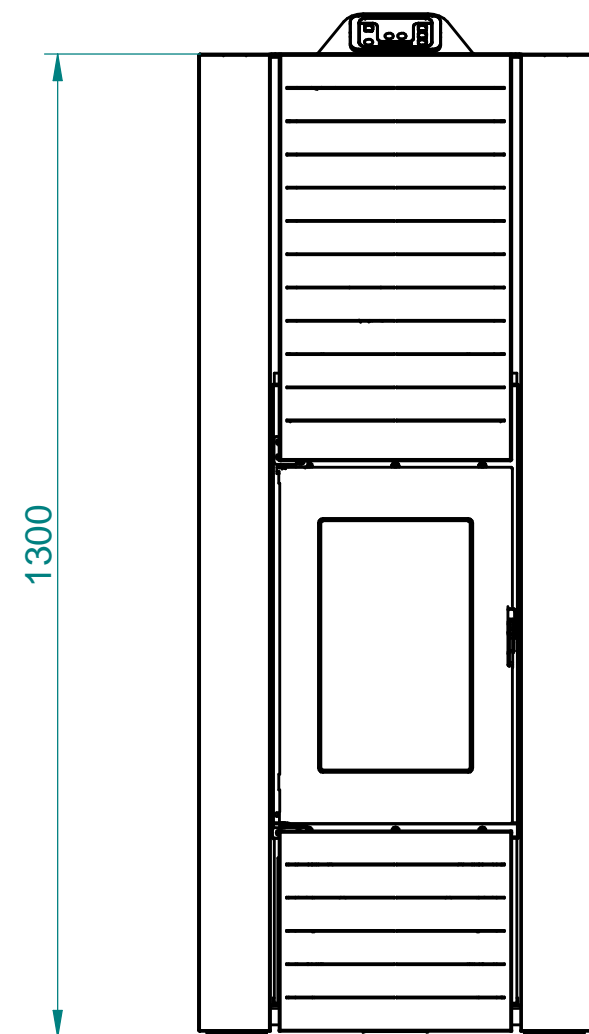
VKF N° XXXXX

Made in Italy

Произведено в Италии



A03



 QUOTA CONTROLLO INTERNO

Proprietà riservata della PALAZZETTI LELIO S.p.A. - PORCIA - PN A termini di legge è vietato riprodurre o comunicare a terzi il contenuto del presente disegno	RIF.	MODIFICHE	DATA	FIRMA	SVILUPPO
					PESO [Kg] 386.745
					DATA 26/06/2013
					SCALA 1:10
					DISEGNATO M.Boeron
					TOLLERANZE GEN. UNI EN 22768-1 m
MATERIALE			DENOMINAZIONE		
STATO			ECOFIRE IDRO "MARTINA LUX 10" ROSSO		
PALAZZETTI			MODELLO		CODICE
			MARTINA		805712280

A04

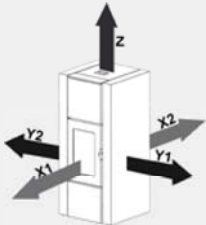
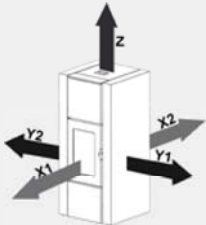
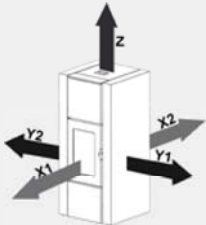


EN 14785:2006		HP008S_0_10	ECOFIRE MARTINA IDRO LUX 10 KW	
Distance from combustible material			mm min	200
Combustion products emissions (CO)	Rated power		%	0,002
	Reduced power		%	0,011
Maximum operating pressure			Bar	2
Fume temperature			° C	86,5
Thermal performance	Rated power		kW	9,26
	Power transferred to water		kW	7,66
Yield	Rated power		%	95,31
	Reduced power		%	95,61
Fuel type				Pellets

DECLARATION OF PERFORMANCE

According to Regulation (EU) No. 305/2011

Nr. 004722672

1	Unique identifier code for product-type	HP008S_0_10																												
2	Model and/or batch no. and/or series no. (Article 11-4)	ECOFIRE MARTINA IDRO LUX 10 KW																												
3	Intended uses of the product in accordance with the applicable harmonised technical specification	Apparatus for domestic heating, fuelled with wood pellets, with hot water production																												
4	Name or trademark of the manufacturer (Article 11-5)	Palazzetti Lelio Spa - via Roveredo,103 - 33080 Porcia (PN) - tel +39 0434922922 - info@palazzetti.it																												
5	Name and address of the agent (Article 12-2)																													
6	Assessment and verification system for constancy of performance (Annex 5)	System 3																												
7	Laboratory notified	TÜV Rheinland n° 2456																												
	Test report number (based on System 3)	K11102013Z1																												
8	Services declare																													
	<table><tr><th>Harmonised technical specifications</th><th>EN 14785:2006</th></tr><tr><th>Essential features</th><th>Services</th></tr><tr><td>Resistance to fire</td><td>A1</td></tr><tr><td>Distance from combustible material </td><td>Minimum distance, in mm X1=800 X2=200 Y1=200 Y2=200 Z= 600</td></tr><tr><td>Fuel leakage risk</td><td>Compliant</td></tr><tr><td>Combustion products emissions (CO) <i>Rated power</i> <i>Reduced power</i></td><td>CO 0,002 % CO 0,011 %</td></tr><tr><td>Surface temperature</td><td>Compliant</td></tr><tr><td>Electrical safety</td><td>Compliant</td></tr><tr><td>Accessibility and cleaning</td><td>Compliant</td></tr><tr><td>Maximum operating pressure</td><td>Bar 2</td></tr><tr><td>Mechanical strength (to support the fireplace)</td><td>Compliant</td></tr><tr><td>Thermal performance <i>Rated power</i> <i>Power output to the environment</i> <i>Power transferred to water</i></td><td>9,26 kW 1,6 kW 7,66 kW</td></tr><tr><td>Yield <i>Rated power</i> <i>Reduced power</i></td><td>η 95,31 % η 95,61 %</td></tr><tr><td>Fume temperature <i>Rated power</i></td><td>T 86,5°C</td></tr></table>		Harmonised technical specifications	EN 14785:2006	Essential features	Services	Resistance to fire	A1	Distance from combustible material 	Minimum distance, in mm X1=800 X2=200 Y1=200 Y2=200 Z= 600	Fuel leakage risk	Compliant	Combustion products emissions (CO) <i>Rated power</i> <i>Reduced power</i>	CO 0,002 % CO 0,011 %	Surface temperature	Compliant	Electrical safety	Compliant	Accessibility and cleaning	Compliant	Maximum operating pressure	Bar 2	Mechanical strength (to support the fireplace)	Compliant	Thermal performance <i>Rated power</i> <i>Power output to the environment</i> <i>Power transferred to water</i>	9,26 kW 1,6 kW 7,66 kW	Yield <i>Rated power</i> <i>Reduced power</i>	η 95,31 % η 95,61 %	Fume temperature <i>Rated power</i>	T 86,5°C
Harmonised technical specifications	EN 14785:2006																													
Essential features	Services																													
Resistance to fire	A1																													
Distance from combustible material 	Minimum distance, in mm X1=800 X2=200 Y1=200 Y2=200 Z= 600																													
Fuel leakage risk	Compliant																													
Combustion products emissions (CO) <i>Rated power</i> <i>Reduced power</i>	CO 0,002 % CO 0,011 %																													
Surface temperature	Compliant																													
Electrical safety	Compliant																													
Accessibility and cleaning	Compliant																													
Maximum operating pressure	Bar 2																													
Mechanical strength (to support the fireplace)	Compliant																													
Thermal performance <i>Rated power</i> <i>Power output to the environment</i> <i>Power transferred to water</i>	9,26 kW 1,6 kW 7,66 kW																													
Yield <i>Rated power</i> <i>Reduced power</i>	η 95,31 % η 95,61 %																													
Fume temperature <i>Rated power</i>	T 86,5°C																													
9	The performance of the product referred to in points 1 and 2 is consistent with the declared performance in point 8.																													

This declaration of performance is issued under the manufacturer's sole responsibility referred to in point 4.

Signed in the name and on behalf of the manufacturer by:

Porcia, 28/08/2013

RUBEN PALAZZETTI (CEO)

A05

Il sottoscritto:
The undersigned:
nella funzione di:
in quality of (position in the company):
dell'azienda:
of the company:
con sede in:
located in :

PALAZZETTI RUBEN

Vice presidente del consiglio di
amministrazione
PALAZZETTI LELIO S.p.A.

PORCIA
Via Roveredo 103

dichiara che:
declares that:

L'apparecchio(i) tipo:
Appliance/s type:
Marchio commerciale
Trade Mark :
Comercializzatore:
Marketer:

HP008S_0_13

Palazzetti

Palazzetti Lelio SpA

E' equivalente per prestazioni e costruzione al' apparecchio :
Is equivalent for performance and manufacturing to appliance:

L'apparecchio(i) tipo:
Appliance/s type:

Ecofire Martina idro lux 13 KW

Marchio commerciale
Trade Mark :

Palazzetti Lelio SpA

Le principali differenze sono :
The main differences are:

L'unica differenza è il type.
The only difference is the type name.
Il contenuto del manuale è identico.
The content of the manual is identical.

Data / Date: 29/08/2013

Firma / Signature:

A06



Palazzetti Lelio S.p.A. – Via Roveredo 103 – Porcia (PN)

DOP Nr. 004722672 – N.B. 2456 **EN 14785:2006**

Apparecchio per il riscaldamento domestico alimentato con pellet di legno

TYPE N. HP008S_0_13

Ecofire Martina idro lux 13 KW

Matr N° XXXXXXXXXX

Combustibile	F	Pellet di legno
Potenza termica max d'ingresso	Plmax	14,27 kW
Potenza termica min d'ingresso	Plmin	3,61 kW
Potenza termica nominale all'ambiente	Pmax	13,51 kW
Potenza termica ridotta all'ambiente	Pmin	3,45 kW
Potenza termica nominale all'acqua	Pwmax	10,99 kW
Potenza termica ridotta all'acqua	Pwmin	2,41 kW
Rendimento alla potenza nominale	EFFmax	94,68 %
Rendimento alla potenza ridotta	EFFmin	95,61 %
Emissioni di CO alla potenza nominale(13%O2)	COmax	18 mg/Nm ³
Emissioni di CO alla potenza ridotta(13%O2)	COmin	162 mg/Nm ³
Pressione idrica max d'esercizio	p	2 bar
Temperatura fumi	Tf	106,4 °C
Temperatura max dell'acqua	Twmax	80 °C
Distanza minima da materiali infiammabili	X1/X2/Y	800/200/200 mm
Tensione	V	230 V
Frequenza	F	50 Hz
Potenza max assorbita in funzionamento	Wmin	110 W
Potenza max assorbita in accensione	Wmax	400 W
Polveri	Dust	4,1 mg/Nm ³

Leggere e seguire le istruzioni di uso e manutenzione
Usare solo il combustibile raccomandato

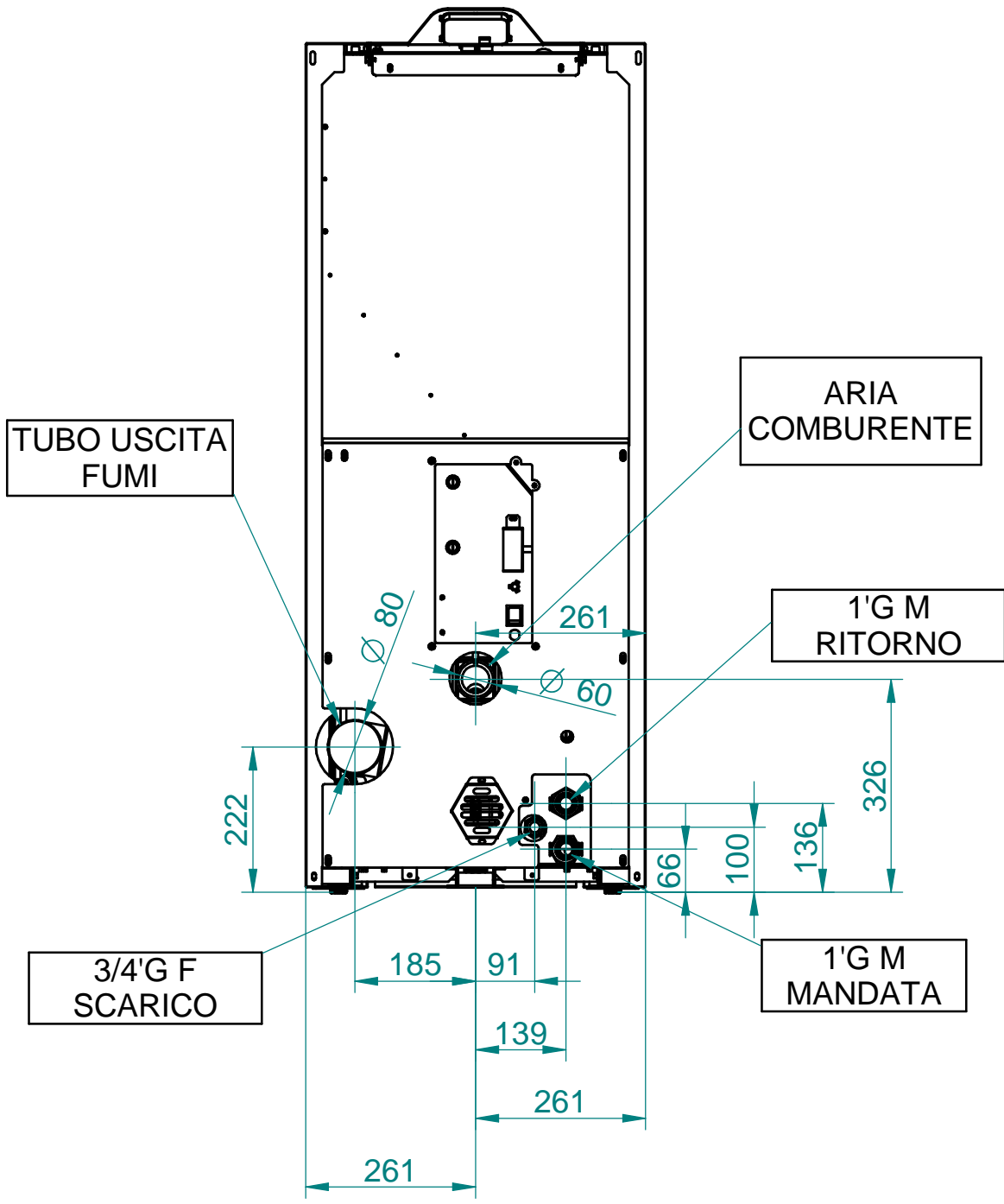
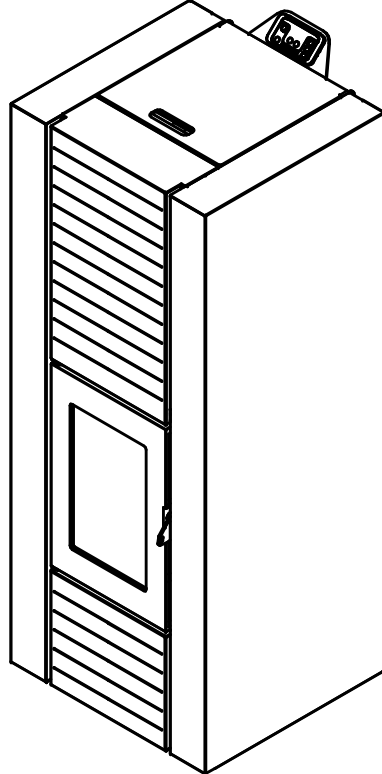
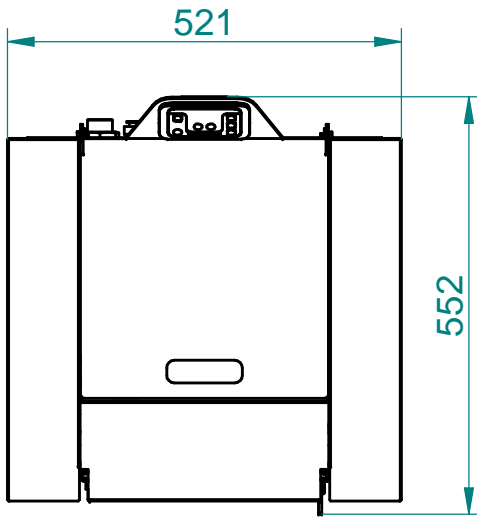
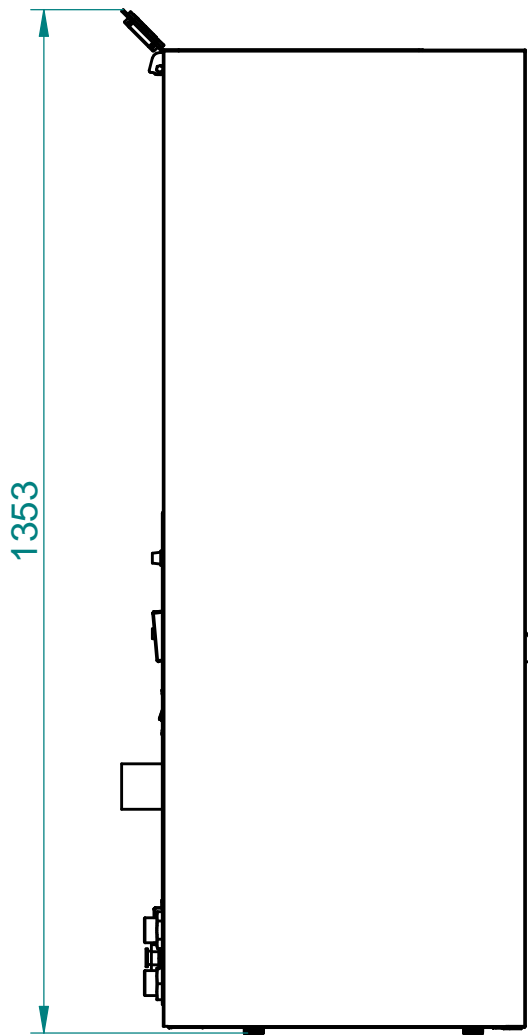
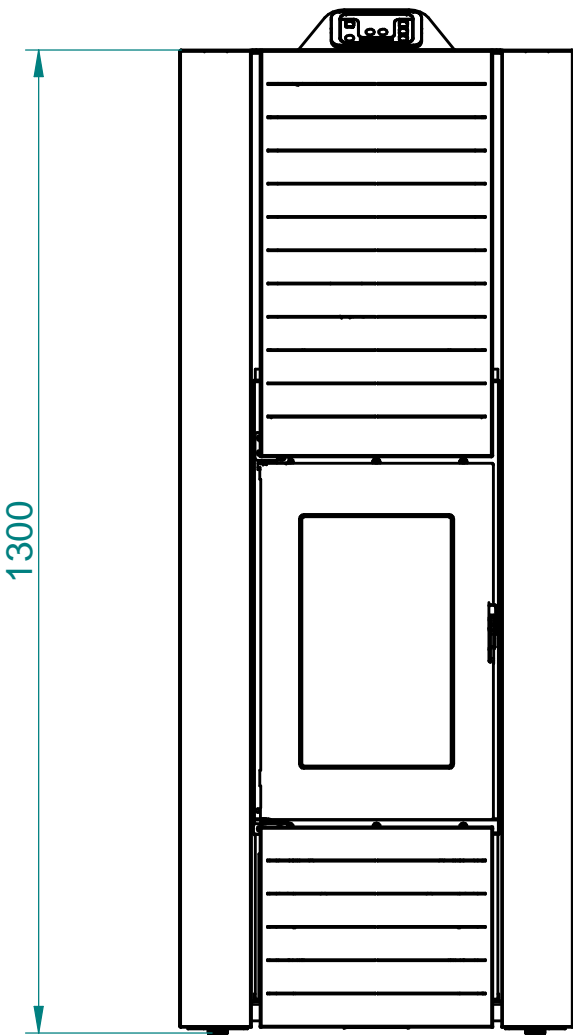
VKF N° XXXXX

Made in Italy

Произведено в Италии



A07



 QUOTA CONTROLLO INTERNO

Proprietà riservata della PALAZZETTI LELIO S.p.A. - PORCIA - PN A termini di legge è vietato riprodurre o comunicare a terzi il contenuto del presente disegno	RIF.	MODIFICHE	DATA	FIRMA	SVILUPPO
					PESO [Kg] 386.745
					DATA 26/06/2013
					SCALA 1:10
					DISEGNATO M.Boeron
					TOLLERANZE GEN. UNI EN 22768-1 m
MATERIALE			DENOMINAZIONE		
STATO			ECOFIRE IDRO "MARTINA LUX 13" ROSSO		
PALAZZETTI			MODELLO		CODICE
			MARTINA		805712290

A08



EN 14785:2006		HP008S_0_13	ECOFIRE MARTINA IDRO LUX 13 KW	
Distance from combustible material			mm min	200
Combustion products emissions (CO)	Rated power		%	0,002
	Reduced power		%	0,011
Maximum operating pressure			Bar	2
Fume temperature			° C	106,4
Thermal performance	Rated power		kW	13,51
	Power transferred to water		kW	10,99
Yield	Rated power		%	94,68
	Reduced power		%	95,61
Fuel type				Pellets

DECLARATION OF PERFORMANCE

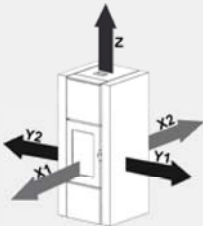
According to Regulation (EU) No. 305/2011

Nr. 004722672

1	Unique identifier code for product-type	HP008S_0_13
2	Model and/or batch no. and/or series no. (Article 11-4)	ECOFIRE MARTINA IDRO LUX 13 KW
3	Intended uses of the product in accordance with the applicable harmonised technical specification	Apparatus for domestic heating, fuelled with wood pellets, with hot water production
4	Name or trademark of the manufacturer (Article 11-5)	Palazzetti Lelio Spa - via Roveredo,103 - 33080 Porcia (PN) - tel +39 0434922922 - info@palazzetti.it
5	Name and address of the agent (Article 12-2)	
6	Assessment and verification system for constancy of performance (Annex 5)	System 3
7	Laboratory notified	TÜV Rheinland n° 2456
	Test report number (based on System 3)	K11102013Z1

8

Services declare

Harmonised technical specifications		EN 14785:2006
Essential features		Services
Resistance to fire		A1
Distance from combustible material		Minimum distance, in mm
		X1=800 X2=200 Y1=200 Y2=200 Z= 600
Fuel leakage risk		Compliant
Combustion products emissions (CO)	Rated power Reduced power	CO 0,002 % CO 0,011 %
Surface temperature		Compliant
Electrical safety		Compliant
Accessibility and cleaning		Compliant
Maximum operating pressure		Bar 2
Mechanical strength (to support the fireplace)		Compliant
Thermal performance	Rated power Power output to the environment Power transferred to water	13,51 kW 2,51 kW 10,99 kW
Yield	Rated power Reduced power	η 94,68 % η 95,61 %
Fume temperature		T 106,4 °C

9	The performance of the product referred to in points 1 and 2 is consistent with the declared performance in point 8.
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This declaration of performance is issued under the manufacturer's sole responsibility referred to in point 4.

Signed in the name and on behalf of the manufacturer by:

Porcia, 28/08/2013

RUBEN PALAZZETTI (CEO)