

Report No. K32542022Z1
Residential space heating appliances
Initial type test
-Renaming-
DIN EN 14785
Type:
ECOFIRE MILU 6
ECOFIRE MILU 8

Company: Palazzetti Lelio S.p.A.
Trademark: Palazzetti

2022



This accreditation is valid only for the listed standards as stated in the accreditation annex of D-PL-11120-04-00

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Publication of page 2 is permitted.

The test results presented in this report refer solely to the test object stated as described on page 2. The report does not represent a general statement about the serial production of the test object and gives not an authorization fore of a TÜV Rheinland test- / certification mark.

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)

Trademark: Palazzetti

Type designations: ECOFIRE MILU 6
ECOFIRE MILU 8

Type of appliance: Residential space heating appliance fired by wood pellets without water heat exchanger with fan assisted flue discharge with internal fuel hopper

Type designations	ECOFIRE MILU 6	ECOFIRE MILU 8
Total heat input in kW	2,7 – 6,5	2,7 – 9,2
Space heat output in kW	2,4 – 6,0	2,4 – 8,2

Water heat output: Not applicable

Fuels: Wood pellets

Remarks: -

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 K32242022T1.

Cologne, 31.05.2022
432/pom

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

Expert

Report released after review


Dipl.-Ing. A. Pomp

Dipl.-Ing. M. Reimbold

Residential space heating appliances fired by wood pellets, Initial Type Test in accordance with the regulation 305/2011 conformity certification system no. 3
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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 32242022T1	New Palazzetti Lelio S.p.A. I-33080 Porcia (PN) Report K 32542022Z1
AP004N_4_06	ECOFIRE MILU 6
AP004N_4_08	ECOFIRE MILU 8

2. Testing

The practical tests were carried out by the laboratory CMC Centro Misure Compatibilità S.r.l., via della Fisica 20, Thiene (VI) – Italy, on the 16th, on the 17th and on the 18th of February 2022 on models AP004N_4N... by Palazzetti Lelio S.p.A. (report K32242022T1). Palazzetti ensures that modifications on the above mentioned products were not carried out.

2.1 Resume of test results

ECOFIRE MILU 6		Nominal	Partial	Requirement
Mass of the test fuel fired hourly	kg/h	1,390	0,565	-
Flue gas mass flow	g/s	3,75	2,93	-
Flue gas temperature	°C	162,6	92,5	-
Flue draught	mbar	0,12	0,10	0,12/0,10 +/-0,02 or declared value
CO ₂ -concentration	Vol.-%	12,4	6,2	-
O ₂ -concentration	Vol.-%	8,3	14,7	-
CO-concentration	ppm	45	188	-
CO-emission (at 13%-O ₂)	mg/m ³	35	297	500/750
CO-emission	mg/kWh	82	689	-
CO-emission	mg/MJ	23	191	-
NO _x -concentration	ppm	76	25	-
NO _x -emission (at 13%-O ₂)	mg/m ³	99	64	-
NO _x -emission	mg/kWh	229	148	-
NO _x -emission	mg/MJ	64	41	-
CnHm-concentration measured acc. to CEN/TS 15883	ppm	2	2	-
CnHm-emission (at 13%-O ₂)	mg/m ³	2	4	-
CnHm-emission	mg/kWh	5	10	-
CnHm-emission	mg/MJ	2	3	-
Dust concentration measured acc. to CEN/TS 15883 and EN13284-1 *	mg	6	1	-
Dust emission (at 13%-O ₂)	mg/m ³	13	5	-
Dust emission	mg/kWh	30	12	-
Dust emission	mg/MJ	8	3	-
Total heat input	kW	6,5	2,7	-
Total heat output	kW	6,0	2,4	-
Water heat output	kW	-	-	-
Space heat output	kW	6,0	2,4	-
Efficiency	%	91,2	91,7	75/70 (EN14785)

ECOFIRE MILU 8		Nominal	Partial	Requirement
Mass of the test fuel fired hourly	kg/h	1,950	0,565	-
Flue gas mass flow	g/s	4,69	2,93	-
Flue gas temperature	°C	209,0	92,5	-
Flue draught	mbar	0,12	0,10	0,12/0,10 +/-0,02 or declared value
CO ₂ -concentration	Vol.-%	14,1	6,2	-
O ₂ -concentration	Vol.-%	6,6	14,7	-
CO-concentration	ppm	62	188	-
CO-emission (at 13%-O ₂)	mg/m ³	42	297	500/750
CO-emission	mg/kWh	98	689	-
CO-emission	mg/MJ	27	191	-
NO _x -concentration	ppm	87	25	-
NO _x -emission (at 13%-O ₂)	mg/m ³	99	64	-
NO _x -emission	mg/kWh	230	148	-
NO _x -emission	mg/MJ	64	41	-
CnHm-concentration measured acc. to CEN/TS 15883	ppm	3	2	-
CnHm-emission (at 13%-O ₂)	mg/m ³	2	4	-
CnHm-emission	mg/kWh	6	10	-
CnHm-emission	mg/MJ	2	3	-
Dust concentration measured acc. to CEN/TS 15883 and EN13284-1 *	mg	7	1	-
Dust emission (at 13%-O ₂)	mg/m ³	13	5	-
Dust emission	mg/kWh	31	12	-
Dust emission	mg/MJ	9	3	-
Total heat input	kW	9,2	2,7	-
Total heat output	kW	8,2	2,4	-
Water heat output	kW	-	-	-
Space heat output	kW	8,2	2,4	-
Efficiency	%	89,5	91,7	75/70 (EN14785)

*) Average of 3 samples, based on separate calculation.

ECOFIRE MILU ...			
Maximum temperatures at trihedron:			
- Right side	°C	58,8	65 K over t_{ambient}
- Back side	°C	38,5	65 K over t_{ambient}
- Front side	°C	74,8	65 K over t_{ambient}
- Floor	°C	55,5	65 K over t_{ambient}
Distances:			
- Backside-Pelletstove	mm	100	
- Side-Pelletstove	mm	200	
- Front-Pelletstove	mm	800	
Ambient temperature	°C	25,8	
Max. temperature in fuel hopper	°C	83,4	65 K over t_{ambient}
Max. temperature of operating tools (handle of fuel hopper)	°C	54,3	35 K over t_{ambient}
Max. temperature of operating tools (control panel)		49,1	35 K over t_{ambient}

3. Statement of the test results

The appliances

ECOFIRE MILU 6
ECOFIRE MILU 8

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 K32542022T1) are not affected by the renaming.

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.

This statement was given based on the documentation submitted by the manufacturer and the tested sample. The statement is valid only for products / appliances which are manufactured according to the tested specimen.

4 Test documents

A 1	Declaration of identical construction	19/04/2022
A 2	Type label	
A 3	Drawing	
A 4	DOP	19/04/2022