

Report No. K26882019Z1
Residential space heating appliances
Initial type test
-Renaming-
DIN EN 14785
Type:
ECOFIRE NINA 6 V2
ECOFIRE NINA 8 V2

Company: Palazzetti Lelio S.p.A.

2019



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)

Type designations: ECOFIRE NINA 6 V2
ECOFIRE NINA 8 V2

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 NINA 6 V2	ECOFIRE NINA 8 V2
Total heat input in kW	3,1 – 6,6	3,1 – 9,3
Space heat output in kW	2,9 – 6,0	2,9 – 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 K 17932018E3.

Cologne, 18.10.2019
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. Reibold

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 17932018E3	New Palazzetti Lelio S.p.A. I-33080 Porcia (PN) Report K 26882019Z1
AP004N_2_06	ECOFIRE NINA 6 V2
AP004N_2_08	ECOFIRE NINA 8 V2

2. Testing

The practical tests were carried out in the laboratory in Thiene dated on the on the 18th, on the 19th, 25th February 2016 and on the 14th of March 2018 on models AP004N_2N... by Palazzetti Lelio S.p.A. (report K17932018E3). Palazzetti ensures that modifications on the above mentioned products were not carried out.

2.1 Resume of test results

ECOFIRE NINA 6 V2		Nominal	Partial	Requirement
Mass of the test fuel fired hourly	kg/h	1,363	0,628	-
Flue gas mass flow	g/s	4,1	3,47	-
Flue gas temperature	°C	167,9	85,8	-
Flue draught	mbar	0,12	0,10	0,12/0,10 +/-0,02
CO ₂ -concentration	Vol.-%	11,40	6,0	-
O ₂ -concentration	Vol.-%	9,03	14,7	-
CO-concentration	ppm	32	94	-
CO-emission (at 13%-O ₂)	mg/m ³	26	151	500/750
CO-emission	mg/kWh	63	348	-
CO-emission	mg/MJ	17	97	-
NO _x -concentration	ppm	94	51	-
NO _x -emission (at 13%-O ₂)	mg/m ³	128	133	-
NO _x -emission	mg/kWh	305	308	-
NO _x -emission	mg/MJ	85	86	-
CnHm-concentration measured acc. CEN/TS 15883	ppm	1	3	-
CnHm-emission (at 13%-O ₂)	mg/m ³	1	6	-
CnHm-emission	mg/kWh	3	14	-
CnHm-emission	mg/MJ	1	4	-
Dust emission (at 13%-O ₂)	mg/m ³	10	15	-
Dust emission	mg/kWh	24	35	-
Dust emission	mg/MJ	7	10	-
Total heat input	kW	6,6	3,1	-
Total heat output	kW	6,0	2,9	-
Water heat output	kW	0,0	0,0	-
Space heat output	kW	6,0	2,9	-
Efficiency	%	90,0	92,3	75/70 (EN14785)

ECOFIRE NINA 8 V2		Nominal	Partial	Requirement
Mass of the test fuel fired hourly	kg/h	1,917	0,628	-
Flue gas mass flow	g/s	5,1	3,47	-
Flue gas temperature	°C	224,5	85,8	-
Flue draught	mbar	0,12	0,10	0,12/0,10 +/-0,02
CO ₂ -concentration	Vol.-%	13,01	6,0	-
O ₂ -concentration	Vol.-%	7,34	14,7	-
CO-concentration	ppm	35	94	-
CO-emission (at 13%-O ₂)	mg/m ³	26	151	500/750
CO-emission	mg/kWh	61	348	-
CO-emission	mg/MJ	17	97	-
NO _x -concentration	ppm	111	51	-
NO _x -emission (at 13%-O ₂)	mg/m ³	134	133	-
NO _x -emission	mg/kWh	318	308	-
NO _x -emission	mg/MJ	88	86	-
CnHm-concentration measured acc. CEN/TS 15883	ppm	1	3	-
CnHm-emission (at 13%-O ₂)	mg/m ³	1	6	-
CnHm-emission	mg/kWh	3	14	-
CnHm-emission	mg/MJ	1	4	-
Dust emission (at 13%-O ₂)	mg/m ³	8	15	-
Dust emission	mg/kWh	20	35	-
Dust emission	mg/MJ	6	10	-
Total heat input	kW	9,3	3,1	-
Total heat output	kW	8,2	2,9	-
Water heat output	kW	0,0	0,0	-
Space heat output	kW	8,2	2,9	-
Efficiency	%	87,7	92,3	75/70 (EN14785)

ECOFIRE NINA 8 V2			
Maximum temperatures at trihedron:			
- Right side	°C	48,1	65 K over tambient
- Back side	°C	53,3	65 K over tambient
- Front side 80 cm	°C	41,5	65 K over tambient
- Floor	°C	45,1	65 K over tambient
Distances:			
- Backside-Pelletstove	mm	100	
- Side-Pelletstove	mm	100	
- Front-Pelletstove	mm	800	
Ambient temperature	°C	23,4	
Max. temperature in fuel hopper	°C	60,6	65 K over tambient
Max. temperature of operating tools (handle of firedoor)	°C	167,6*	35 K over tambient

*) tool provided by the manufacturer

3. Statement of the test results

The appNINAnces

ECOFIRE NINA 6 V2

ECOFIRE NINA 8 V2

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 K17932018E3) 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	22/07/2019
A 2	Type label	
A 3	Drawing	
A 4	DOP	26/07/2019