

Report No. K 3543 2025 B2

**Residential solid fuel burning
appliances**

**Mechanically by wood pellets fed
roomheaters, inset appliances and cookers**

DIN EN 16510-2-6:2023-02, Table ZA.1

Type:
AP008S_2_08/09/10/11/12 EN
AP008S_3_08/09/10/11/12 EN

Trademark:
PALAZZETTI

Company:
PALAZZETTI LELIO S.p.A.



Deutsche
Akkreditierungsstelle
D-PL-11120-04-00

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 for use of a TÜV Rheinland test/certification mark.

Report of relevant clauses for
Residential solid fuel burning appliances:
mechanically by wood pellets fed roomheaters, inset appliances and cookers
DIN EN 16510-2-6:2023-02, Table ZA.1

Historical assessment data based on test reports K11612013T1-Rev.01 and K11612018E5/E6

Applicant/contractor: **PALAZZETTI LELIO S.p.A.**
Via Roveredo, 103
33080 Porcia (PN) - Italy

Trademark: **PALAZZETTI**

Type designations: **AP008S_2_08/09/10/11/12 EN, AP008S_3_08/09/10/11/12 EN**

Additional identical roomheaters **See page 3**

Appliances description: Residential space heating appliance with fan assisted flue discharge and with internal fuel hopper.

Test fuel: wood pellets Ø 6 mm, Lmax 30 mm, max humidity 6,1%, Pellet FireStixx Premium, class A1 according to EN 17225-2

Specified data by applicant

Type of appliance:	CC50				
Type designations:	AP008S_2_08 AP008S_3_08	AP008S_2_09 AP008S_3_09	AP008S_2_10 AP008S_3_10	AP008S_2_11 AP008S_3_11	AP008S_2_12 AP008S_3_12
Total heat input [kW]:	4,0 - 8,8	4,0 – 10,0	4,0 - 10,9	4,0 - 12,4	4,0 - 13,6
Space heat output [kW]:	3,7 - 8,0	3,7 - 9,0	3,7 - 9,8	3,68 - 11,0	3,7 - 12,0
Water heat output:	Not applicable				
Max. water pressure:	Not applicable				
Max. water temperature:	Not applicable				

Remarks: Test data documented in this report are based on historical data of the initial type testing reports no.: K11612013T1-Rev.01 and K11612018E5/E6 according to DIN EN 14785:2006-09 and Corr. 1 DIN EN 14785:2007-10.

Test basis: DIN EN 16510-2-6:2023-02, Table ZA.1.

Test results: The essential specified characteristics of Table ZA.1 of DIN EN 16510-2-6:2023-02 are assessed. Clause 4.9 is not part of this assessment.

Performance assessments regarding environmental sustainability is not considered in the present order and is not the subject of this report. A possible NPD declaration by the manufacturer is also not included in the present report.

Dated in Cologne, 2025-04-09

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

Assessor:

Report released after review:

Dipl.-Ing. A. Pomp

Dipl.-Ing. M. Reimbold

For the purposes of Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this Assessments of Performance Report under AVCP system 3 applies to the construction product(s)

**Additional identical roomheaters to
AP008S_2_08/09/10/11/12 EN and AP008S_3_08/09/10/11/12 EN:**

**ECOFIRE BIANCA LUX 9 EN
ECOFIRE BIANCA LUX 12 EN
ECOFIRE ANNA 9 US EN
ECOFIRE ANNA 12 US EN
ECOFIRE JULIE 9 US EN
ECOFIRE JULIE 12 US EN
ECOFIRE AURORA 9 US EN
ECOFIRE AURORA 12 US EN
ECOFIRE ANNA 9 V2 EN/ECOFIRE ANNA 9 V2 PRO 2 EN
ECOFIRE ANNA 12 V2 EN/ECOFIRE ANNA 12 V2 PRO 3 EN
ECOFIRE ANDRES 12 V2 EN
ECOFIRE JULIE 9 V2 EN/ECOFIRE JULIE 9 V2 PRO 2 EN
ECOFIRE JULIE 9 V2 9 OLLARE EN/ECOFIRE JULIE 9 V2 PRO 2 OLLARE EN
ECOFIRE JULIE 12 V2 EN /ECOFIRE JULIE 12 V2 PRO 3 EN
ECOFIRE MIRIAM 9 V2 EN/ECOFIRE MIRIAM 9 V2 PRO 2 EN
ECOFIRE MIRIAM 12 V2 EN /ECOFIRE MIRIAM 12 V2 PRO 3 EN**

Relevant clauses for roomheater for solid fuel intended for space heating in residential buildings acc. DIN EN 16510-2-1:2023-02, Table ZA.1

AP008S_2_08/09/10/11/12 EN, AP008S_3_08/09/10/11/12 EN		
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1
Mechanical resistance and stability		
Load bearing capacity	4.1	Specified: 0 kg
Safety in case of fire		
Protection of combustible materials	4.2	<p>Specified distances:</p> <p>Minimum distance to combustible materials – bottom (d_B): 0 mm</p> <p>Minimum distance to combustible materials – floor in front (d_F): 1500 mm</p> <p>Minimum distance to combustible materials – ceiling (d_C): 750 mm</p> <p>Minimum distance to combustible materials – rear (d_R): 200 mm</p> <p>Minimum distance to combustible materials – side (d_S): 200 mm</p> <p>Minimum distance to combustible materials – side radiation area (d_L): 1500 mm</p> <p>Minimum distance to combustible materials (e.g. furniture) (d_P): 800 mm</p> <p>Material type and thickness of protective insulation material (s) (if any): -</p>
		Maximum determined temperatures rise at specified distances: ≤ 65 K

AP008S_2_08 EN, AP008S_3_08 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data (13% O ₂)	Specified Data (13% O ₂)
Hygiene, health and the environment			
At nominal heat output:			
Carbon monoxide emission (CO)	4.3	18 mg/m ³	100 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	151 mg/m ³	155 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	2 mg/m ³	3 mg/m ³
Particulate matter emissions (PM)	4.6	7 mg/m ³	8 mg/m ³
At part. load heat output:			
Carbon monoxide emission (CO)	4.3	206 mg/m ³	250 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	136 mg/m ³	137 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	5 mg/m ³	5 mg/m ³
Particulate matter emissions (PM)	4.6	11 mg/m ³	11 mg/m ³

AP008S_2_08 EN, AP008S_3_08 EN		
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1
Safety and accessibility in use		
Data for installation to a chimney at nominal heat output:		
Flue gas outlet temperature	4.7.2	189 °C
Minimum flue draught	4.7.4	12 Pa
Flue gas mass flow	4.7.6	5,4 g/s
Data for installation to a chimney at part. load heat output:		
Flue gas outlet temperature	4.7.3	117 °C
Minimum flue draught	4.7.5	10 Pa
Flue gas mass flow	4.7.7	4,4 g/s
Data for installation to a chimney regarding fire safety on safety test heat output:		
Fire safety of installation to a chimney	4.7.8	T400 G

AP008S_2_08 EN, AP008S_3_08 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined data	Specified data
Energy economy and heat retention			
Appliance's thermal output and energy efficiency at nominal heat output:			
Space heat output	4.8.1	8,0 kW	8,0 kW
Water heat output, if existing	4.8.2	-	-
Efficiency	4.8.3	91 %	91 %
Appliance's thermal output and energy efficiency at part. load heat output:			
Space heat output	4.8.4	3,7 kW	3,7 kW
Water heat output, if existing	4.8.5	-	-
Efficiency	4.8.6	91 %	91 %

AP008S_2_08 EN, AP008S_3_08 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined data	Specified data
Space heating efficiency			
Seasonal space heating efficiency at appliance's nominal heat output	4.8.7	85 %	85 %
Energy efficiency	4.8.8	Index (EEI): 125 Energy efficiency classification: A+	Index (EEI): 126 Energy efficiency classification: A+
Electric power consumption at appliance's nominal heat output, if existing	4.8.9	0.107 kW	0.107 kW
Electric power consumption at appliance's part. load heat output, if existing	4.8.10	0.060 kW	0.060 kW
Standby mode power consumption, if existing	4.8.11	0.001 kW	0.001 kW

The specified heat output, efficiency and emission values are in line with the measured values considering rounding rules of DIN EN 16510-1:2023-02, clause A.5.

AP008S_2_09 EN, AP008S_3_09 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data (13% O ₂)*	Specified Data (13% O ₂)
Hygiene, health and the environment			
At nominal heat output:			
Carbon monoxide emission (CO)	4.3	-	100 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	-	250 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	-	3 mg/m ³
Particulate matter emissions (PM)	4.6	-	12 mg/m ³
At part. load heat output:			
Carbon monoxide emission (CO)	4.3	-	250 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	-	137 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	-	5 mg/m ³
Particulate matter emissions (PM)	4.6	-	11 mg/m ³

* The type designation AP008S_2_09 EN, AP008S_3_09 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

AP008S_2_09 EN, AP008S_3_09 EN		
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1
Safety and accessibility in use		
Data for installation to a chimney at nominal heat output:		
Flue gas outlet temperature	4.7.2	209 °C
Minimum flue draught	4.7.4	12 Pa
Flue gas mass flow	4.7.6	5,8 g/s
Data for installation to a chimney at part. load heat output:		
Flue gas outlet temperature	4.7.3	117 °C
Minimum flue draught	4.7.5	10 Pa
Flue gas mass flow	4.7.7	4,4 g/s
Data for installation to a chimney regarding fire safety on safety test heat output:		
Fire safety of installation to a chimney	4.7.8	T400 G

AP008S_2_09 EN, AP008S_3_09 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data*	Specified data
Energy economy and heat retention			
Appliance's thermal output and energy efficiency at nominal heat output:			
Space heat output	4.8.1	-	9,0 kW
Water heat output, if existing	4.8.2	-	-
Efficiency	4.8.3	-	88 %
Appliance's thermal output and energy efficiency at part. load heat output:			
Space heat output	4.8.4	-	3,7 kW
Water heat output, if existing	4.8.5	-	-
Efficiency	4.8.6	-	91 %

* The type designation AP008S_2_09 EN, AP008S_3_09 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

AP008S_2_09 EN, AP008S_3_09 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data*	Specified data
Space heating efficiency			
Seasonal space heating efficiency at appliance's nominal heat output	4.8.7	-	83 %
Energy efficiency	4.8.8	-	Index (EEI): 123 Energy efficiency classification: A+
Electric power consumption at appliance's nominal heat output, if existing	4.8.9	-	0.107 kW
Electric power consumption at appliance's part. load heat output, if existing	4.8.10	-	0.060 kW
Standby mode power consumption, if existing	4.8.11	-	0.001 kW

* The type designation AP008S_2_09 EN, AP008S_3_09 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

The specified heat output, efficiency and emission values are in line with the measured values considering rounding rules of DIN EN 16510-1:2023-02, clause A.5.

AP008S_2_10 EN, AP008S_3_10 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data (13% O ₂)*	Specified Data (13% O ₂)
Hygiene, health and the environment			
At nominal heat output:			
Carbon monoxide emission (CO)	4.3	-	100 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	-	250 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	-	3 mg/m ³
Particulate matter emissions (PM)	4.6	-	12 mg/m ³
At part. load heat output:			
Carbon monoxide emission (CO)	4.3	-	250 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	-	137 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	-	5 mg/m ³
Particulate matter emissions (PM)	4.6	-	11 mg/m ³

* The type designation AP008S_2_10 EN, AP008S_3_10 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

AP008S_2_10 EN, AP008S_3_10 EN		
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 35432025 T1
Safety and accessibility in use		
Data for installation to a chimney at nominal heat output:		
Flue gas outlet temperature	4.7.2	225 °C
Minimum flue draught	4.7.4	12 Pa
Flue gas mass flow	4.7.6	6,2 g/s
Data for installation to a chimney at part. load heat output:		
Flue gas outlet temperature	4.7.3	117 °C
Minimum flue draught	4.7.5	10 Pa
Flue gas mass flow	4.7.7	4,4 g/s
Data for installation to a chimney regarding fire safety on safety test heat output:		
Fire safety of installation to a chimney	4.7.8	T400 G

AP008S_2_10 EN, AP008S_3_10 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data*	Specified data
Energy economy and heat retention			
Appliance's thermal output and energy efficiency at nominal heat output:			
Space heat output	4.8.1	-	9,8 kW
Water heat output, if existing	4.8.2	-	-
Efficiency	4.8.3	-	88 %
Appliance's thermal output and energy efficiency at part. load heat output:			
Space heat output	4.8.4	-	3,7 kW
Water heat output, if existing	4.8.5	-	-
Efficiency	4.8.6	-	91 %

* The type designation AP008S_2_10 EN, AP008S_3_10 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

AP008S_2_10 EN, AP008S_3_10 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data*	Specified data
Space heating efficiency			
Seasonal space heating efficiency at appliance's nominal heat output	4.8.7	-	83 %
Energy efficiency	4.8.8	-	Index (EEI): 123 Energy efficiency classification: A+
Electric power consumption at appliance's nominal heat output, if existing	4.8.9	-	0.107 kW
Electric power consumption at appliance's part. load heat output, if existing	4.8.10	-	0.060 kW
Standby mode power consumption, if existing	4.8.11	-	0.001 kW

* The type designation AP008S_2_10 EN, AP008S_3_10 EN EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

The specified heat output, efficiency and emission values are in line with the measured values considering rounding rules of DIN EN 16510-1:2023-02, clause A.5.

AP008S_2_11 EN, AP008S_3_11 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 35432025 T1	
		Determined Data (13% O ₂)*	Specified Data (13% O ₂)
Hygiene, health and the environment			
At nominal heat output:			
Carbon monoxide emission (CO)	4.3	-	100 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	-	250 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	-	3 mg/m ³
Particulate matter emissions (PM)	4.6	-	12 mg/m ³
At part. load heat output:			
Carbon monoxide emission (CO)	4.3	-	250 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	-	137 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	-	5 mg/m ³
Particulate matter emissions (PM)	4.6	-	11 mg/m ³

* The type designation AP008S_2_11 EN, AP008S_3_11 EN EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

AP008S_2_11 EN, AP008S_3_11 EN		
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 35432025 T1
Safety and accessibility in use		
Data for installation to a chimney at nominal heat output:		
Flue gas outlet temperature	4.7.2	249 °C
Minimum flue draught	4.7.4	12 Pa
Flue gas mass flow	4.7.6	6,7 g/s
Data for installation to a chimney at part. load heat output:		
Flue gas outlet temperature	4.7.3	117 °C
Minimum flue draught	4.7.5	10 Pa
Flue gas mass flow	4.7.7	4,4 g/s
Data for installation to a chimney regarding fire safety on safety test heat output:		
Fire safety of installation to a chimney	4.7.8	T400 G

AP008S_2_11 EN, AP008S_3_11 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data*	Specified data
Energy economy and heat retention			
Appliance's thermal output and energy efficiency at nominal heat output:			
Space heat output	4.8.1	-	11,0 kW
Water heat output, if existing	4.8.2	-	-
Efficiency	4.8.3	-	88 %
Appliance's thermal output and energy efficiency at part. load heat output:			
Space heat output	4.8.4	-	3,7 kW
Water heat output, if existing	4.8.5	-	-
Efficiency	4.8.6	-	91 %

* The type designation AP008S_2_11 EN, AP008S_3_11 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

AP008S_2_11 EN, AP008S_3_11 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data*	Specified data
Space heating efficiency			
Seasonal space heating efficiency at appliance’s nominal heat output	4.8.7	-	83 %
Energy efficiency	4.8.8	-	Index (EEI): 123 Energy efficiency classification: A+
Electric power consumption at appliance’s nominal heat output, if existing	4.8.9	-	0.107 kW
Electric power consumption at appliance’s part. load heat output, if existing	4.8.10	-	0.060 kW
Standby mode power consumption, if existing	4.8.11	-	0.001 kW

* The type designation AP008S_2_11 EN, AP008S_3_11 EN is based on families of appliances and was not tested (see Annex G of EN16510-1)

The specified heat output, efficiency and emission values are in line with the measured values considering rounding rules of DIN EN 16510-1:2023-02, clause A.5.

AP008S_2_12 EN, AP008S_3_12 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined Data (13% O ₂)	Specified Data (13% O ₂)
Hygiene, health and the environment			
At nominal heat output:			
Carbon monoxide emission (CO)	4.3	88 mg/m ³	100 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	147 mg/m ³	155 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	3 mg/m ³	3 mg/m ³
Particulate matter emissions (PM)	4.6	11 mg/m ³	12 mg/m ³
At part. load heat output:			
Carbon monoxide emission (CO)	4.3	206 mg/m ³	250 mg/m ³
Nitrogen oxides (NO _x) emissions	4.4	136 mg/m ³	137 mg/m ³
Emission of organic gaseous carbon (OGC)	4.5	5 mg/m ³	5 mg/m ³
Particulate matter emissions (PM)	4.6	11 mg/m ³	11 mg/m ³

AP008S_2_12 EN, AP008S_3_12 EN		
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1
Safety and accessibility in use		
Data for installation to a chimney at nominal heat output:		
Flue gas outlet temperature	4.7.2	270 °C
Minimum flue draught	4.7.4	12 Pa
Flue gas mass flow	4.7.6	7,1 g/s
Data for installation to a chimney at part. load heat output:		
Flue gas outlet temperature	4.7.3	117 °C
Minimum flue draught	4.7.5	10 Pa
Flue gas mass flow	4.7.7	4,4 g/s
Data for installation to a chimney regarding fire safety on safety test heat output:		
Fire safety of installation to a chimney	4.7.8	T400 G

AP008S_2_12 EN, AP008S_3_12 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined data	Specified data
Energy economy and heat retention			
Appliance's thermal output and energy efficiency at nominal heat output:			
Space heat output	4.8.1	12,0 kW	12,0 kW
Water heat output, if existing	4.8.2	-	-
Efficiency	4.8.3	88 %	88 %
Appliance's thermal output and energy efficiency at part. load heat output:			
Space heat output	4.8.4	3,7 kW	3,7 kW
Water heat output, if existing	4.8.5	-	-
Efficiency	4.8.6	91 %	91 %

AP008S_2_12 EN, AP008S_3_12 EN			
Essential characteristics	Clauses of this European Standard related to essential characteristics	Assessment and verification For more information, see Test Report K 3543 2025 T1	
		Determined data	Specified data
Space heating efficiency			
Seasonal space heating efficiency at appliance’s nominal heat output	4.8.7	84 %	83 %
Energy efficiency	4.8.8	Index (EEI): 123 Energy efficiency classification: A+	Index (EEI): 123 Energy efficiency classification: A+
Electric power consumption at appliance’s nominal heat output, if existing	4.8.9	0.107 kW	0.107 kW
Electric power consumption at appliance’s part. load heat output, if existing	4.8.10	0.060 kW	0.060 kW
Standby mode power consumption, if existing	4.8.11	0.001 kW	0.001 kW

The specified heat output, efficiency and emission values are in line with the measured values considering rounding rules of DIN EN 16510-1:2023-02, clause A.5.