TÜV Rheinland Energy & Environment GmbH
Test Centre for Energy Appliances

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Report No. K 3760 2025 T1

Residential solid fuel burning appliances: mechanically by wood pellets fed roomheaters, inset appliances and cookers

in accordance with
DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02

Models:
BABY5, WO60

Trademark:
ESPERIA TECHNOLOGY

Company:
Esperia Technology S.r.l.

ilac-MRA DAkkS 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

Test report
Residential solid fuel burning appliances:
mechanically by wood pellets fed roomheaters, inset appliances and cookers.
DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02
Historical assessment data based on test report K32392022T1

Applicant/contractor:	**Esperia Technology S.r.l.** Via dell'Impresa, 31/33 36040 Brendola (VI) - Italy
Trademark:	**ESPERIA TECHNOLOGY**
Models designation:	**BABY5, WO60**
Appliances description:	Mechanical by wood pellets fed roomheaters
Test fuel:	Wood pellets Ø 6 mm, Lmax 30 mm, class A1 according to EN 17225-2
Specified data by applicant	
Type of appliance:	B
Heat output:	2,3 kW – 5,0 kW
Water heat output:	Not applicable

Remarks: -

Test basis: DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

Test results: the appliances conform with the requirements of DIN EN 16510-1:2023-02, except for clauses 5.8, 7 and 8, which are not part of this assessment. The appliances conform with the requirements of DIN EN 16510-2-6:2023-02 except for clause 4.9, which is not part of this assessment. Performance assessments regarding environmental sustainability is not the subject of this report. A possible NPD declaration by the applicant is also not included in this report. The appliances conform with the essential declared characteristics of table ZA.1 of DIN EN 16510-2-6:2023-02, documented with test report K 3760 2025 B2.

Dated in Cologne, 2025-07-16

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

Assessor:

Massimiliano Ciccarelli

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Dipl.-Ing. M. Ciccarelli

Report released after review:

Dipl.-Ing. A. Pomp

1 Task

The Test Centre for Energy Appliances was instructed to carry out the use of historical assessment data of the initial type test report n. K 3239 2022 T1 for the operation with wood pellets in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02. The clauses 5.8, 7 and 8 of DIN EN 16510-1:2023-02 clause 4.9 of DIN EN 16510-2-6:2023-02 are not part of this assessment. The practical tests according with DIN EN 14785:2006-09 and Corr. 1 DIN EN 14785:2007-10 on the same appliance were carried out by the laboratory CMC Centro Misure Compatibilità S.r.l., sited in via della Fisica 20, Thiene (VI) – Italy, on the 10th - 11th – 16th of March 2022.

The data documented in this test report are based on historical data of the initial type testing report n. K 3239 2022 T1 dated 13/05/2022 and issued in accordance with DIN EN 14785:2006-09 and Corr. 1 DIN EN 14785:2007-10. The applicant declares that the construction, functional and safety-related components and design of models **BABY5, WO60** are identical to those documented in the initial type testing report no. K 3239 2022 T1 (see also Appendix A02).

The appliance is now placed in the market with the following name designation:

Historical report acc. with DIN EN 14785	**Reports acc. with DIN EN 16510-1 + DIN EN 16510-2-6**
K 3239 2022 T1	K 3760 2025 T1 K 3760 2025 B2
Model designation: BABY5, WO60	Model designation: BABY5, WO60

2 Description of the appliances

2.1 Construction

Mechanical by wood pellets fed roomheaters without hot water heat exchanger.

The above listed appliances are all identical to each other, except than for the external design.

The main features of the appliances are:

- B type of appliances.
- Fan assisted exhaust flue gas discharge.
- Pellet automatic ignition.
- The appliances are equipped with a frontal convection hot air fan: its speed is dependent to the selected power.

For more information, see the initial type testing report n. K 3239 2022 T1.

2.2 General technical specified data of the appliance

Models name:	**BABY5**

Parameter	Explanation	Specified data by the applicant
P_{nom}	Nominal heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{SHnom}	Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{Wnom}	Nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), given with 1 decimal	--
P_{part}	Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{SHpart}	Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{Wpart}	Part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{slow}	Heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{SHslow}	Space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{Wslow}	Water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, with 1 decimal	--
$P_{acc\ in}$	Accumulator heat input, in kW or W for Kachelofen inset appliances only	--
$T_{acc\ in}$	Temperature at the separate heat exchanger inlet, for Kachelofen inset appliances only, given as an integer	--
ζ_{acc}	Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only	--
η_{nom}	Appliance efficiency at nominal heat output, given as an integer	88 %
η_{part}	Appliance efficiency at part load heat output, given as an integer	90 %
η_S	Appliance seasonal space heating efficiency at nominal heat output, given as an integer	84,3 %
EEI	Energy efficiency index, given as an integer	124
CO_{nom} (13 % O_2)	CO emission at 13 % oxygen content at nominal heat output, given as an integer	71 mg/m^3
CO_{part} (13 % O_2)	CO emission at 13 % oxygen content at part load heat output if specified, given as an integer	130 mg/m^3
CO_{slow} (13 % O_2)	CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
NO_{xnom} (13 % O_2)	NOx emission at 13 % oxygen content at nominal heat output, given as an integer	156 mg/m^3

NO_{xpart} (13 % O_2)	NOx emission at 13 % oxygen content at part load heat output if specified, given as an integer	157 mg/m³
NO_{xslow} (13 % O_2)	NOx emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
OGC_{nom} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer	3 mg/m³
OGC_{part} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer	4 mg/m³
OGC_{slow} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
PM_{nom} (13 % O_2)	Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer	20 mg/m³
PM_{part} (13 % O_2)	Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer	20 mg/m³
PM_{slow} (13 % O_2)	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
p_{nom}	Minimum flue draught at nominal heat output, given as an integer	12 Pa
p_{part}	Minimum flue draught at part load heat output if specified, given as an integer	5 Pa
p_{slow}	Minimum flue draught at heat output at slow combustion if specified, given as an integer	--
p_W	Permissible maximum water operating pressure, if applicable, given with 1 decimal	--
d_R	Minimum distances from the rear to combustible material, given as an integer	100 mm
d_S	Minimum distances from the sides to combustible material, given as an integer	200 mm
d_C	Minimum distances from the top to combustible material in the ceiling, given as an integer	750 mm
d_p	Minimum distances from the front to combustible material	800 mm
d_F	Minimum distances from the front to combustible material in bottom front radiation area, given as an integer	800 mm
d_L	Minimum distances from the front to combustible material in side front radiation area, given as an integer	800 mm
d_B	Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer	0 mm
d_{non}	Minimum distances to non-combustible walls, given as an integer	--
s	Protective insulation according to manufacturer's instructions	--
el_{SB}	Consumption of electrical auxiliary energy at standby, given with 3 decimals	0,001 kW
el_{max}	Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals	0,045 kW

el_{min}	Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals	0,035 kW
E, f	Power supply voltage, frequency, given as an integer	--
W_{max}	Maximum electric power input, given as an integer	--
T_{snom}	Flue gas outlet temperature at nominal heat output, given as an integer	202 °C
T_{spart}	Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)	117 °C
T_{class}	Chimney designation according to the appropriate chimney standard	T 200 G
$\phi_{f,g\ nom}$	Flue gas mass flow at nominal heat output, given with 1 decimal	4.2 g/s
$\phi_{f,g\ part}$	Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)	3.3 g/s
V_h	Standing Air Loss, if specified, given with 1 decimal	--
CON or **INT**	whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT)	CON
d_{out}	Diameter of the flue gas outlet, given as an integer	80 mm
L, H, W	Overall dimensions of the appliance (length, height, width), given as an integer	560x825x440 mm
m	Mass of the appliance, given as an integer (in relation to the building's statics)	46 kg
m_{chim}	Maximum load of a chimney the appliance may carry, given as an integer	0

The specified (declared) 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.

Models name:	**WO60**

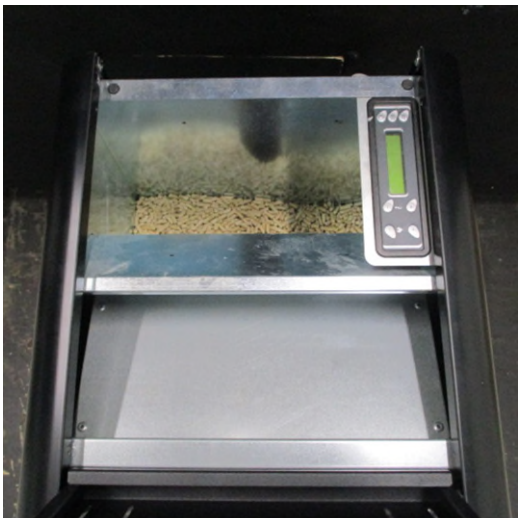
Parameter	Explanation	Specified data by the applicant
P_{nom}	Nominal heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{SHnom}	Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{Wnom}	Nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), given with 1 decimal	--
P_{part}	Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{SHpart}	Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{Wpart}	Part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{slow}	Heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{SHslow}	Space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{Wslow}	Water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, with 1 decimal	--
$P_{acc\ in}$	Accumulator heat input, in kW or W for Kachelofen inset appliances only	--
$T_{acc\ in}$	Temperature at the separate heat exchanger inlet, for Kachelofen inset appliances only, given as an integer	--
ζ_{acc}	Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only	--
η_{nom}	Appliance efficiency at nominal heat output, given as an integer	88 %
η_{part}	Appliance efficiency at part load heat output, given as an integer	90 %
η_S	Appliance seasonal space heating efficiency at nominal heat output, given as an integer	84,3 %
EEI	Energy efficiency index, given as an integer	124
CO_{nom} (13 % O_2)	CO emission at 13 % oxygen content at nominal heat output, given as an integer	71 mg/m^3
CO_{part} (13 % O_2)	CO emission at 13 % oxygen content at part load heat output if specified, given as an integer	130 mg/m^3
CO_{slow} (13 % O_2)	CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
NO_{xnom} (13 % O_2)	NOx emission at 13 % oxygen content at nominal heat output, given as an integer	156 mg/m^3
NO_{xpart} (13 % O_2)	NOx emission at 13 % oxygen content at part load heat output if specified, given as an integer	157 mg/m^3

NO_{xslow} (13 % O_2)	NOx emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
OGC_{nom} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer	3 mg/m³
OGC_{part} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer	4 mg/m³
OGC_{slow} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
PM_{nom} (13 % O_2)	Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer	20 mg/m³
PM_{part} (13 % O_2)	Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer	20 mg/m³
PM_{slow} (13 % O_2)	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
p_{nom}	Minimum flue draught at nominal heat output, given as an integer	12 Pa
p_{part}	Minimum flue draught at part load heat output if specified, given as an integer	5 Pa
p_{slow}	Minimum flue draught at heat output at slow combustion if specified, given as an integer	--
p_W	Permissible maximum water operating pressure, if applicable, given with 1 decimal	--
d_R	Minimum distances from the rear to combustible material, given as an integer	100 mm
d_S	Minimum distances from the sides to combustible material, given as an integer	200 mm
d_C	Minimum distances from the top to combustible material in the ceiling, given as an integer	750 mm
d_p	Minimum distances from the front to combustible material	800 mm
d_F	Minimum distances from the front to combustible material in bottom front radiation area, given as an integer	800 mm
d_L	Minimum distances from the front to combustible material in side front radiation area, given as an integer	800 mm
d_B	Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer	0 mm
d_{non}	Minimum distances to non-combustible walls, given as an integer	--
s	Protective insulation according to manufacturer's instructions	--
el_{SB}	Consumption of electrical auxiliary energy at standby, given with 3 decimals	0,001 kW
el_{max}	Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals	0,045 kW
el_{min}	Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals	0,035 kW
E, f	Power supply voltage, frequency, given as an integer	--

W_{max}	Maximum electric power input, given as an integer	--
T_{snom}	Flue gas outlet temperature at nominal heat output, given as an integer	202 °C
T_{spart}	Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)	117 °C
T_{class}	Chimney designation according to the appropriate chimney standard	T 200 G
$\phi_{f,g\ nom}$	Flue gas mass flow at nominal heat output, given with 1 decimal	4.2 g/s
$\phi_{f,g\ part}$	Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)	3.3 g/s
V_h	Standing Air Loss, if specified, given with 1 decimal	--
CON or **INT**	whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT)	CON
d_{out}	Diameter of the flue gas outlet, given as an integer	80 mm
L, H, W	Overall dimensions of the appliance (length, height, width), given as an integer	515x870x490 mm
m	Mass of the appliance, given as an integer (in relation to the building's statics)	47 kg
m_{chim}	Maximum load of a chimney the appliance may carry, given as an integer	0

The specified (declared) 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.

2.3 Photos of the tested appliance BABY 5



3 Requirements

- P (pass)
- NA (not applicable)
- NT (not tested)
- F (fail)

3.1 Descriptive features

Requirement acc. to DIN EN 16510-1:2023-02	Clause	Tested Acc.	Requirement complies
Designation of appliances	4.1	-	P
System boundary	4.2	-	NA
Production documentation	4.3	-	P
Construction and materials	4.4	-	P
General construction	4.4.1	-	P
Design, manufacture and assembly	4.4.1.1	-	P
Durability	4.4.1.2	-	P
Integral boiler or heat exchanger	4.4.2	-	NA
General	4.4.2.1	-	NA
Integral boilers constructed of steel	4.4.2.2	-	NA
Integral boilers constructed of cast iron	4.4.2.3	-	NA
Cast iron parts subject to water pressure	4.4.2.3.1	-	NA
Minimum wall thicknesses (cast iron)	4.4.2.3.2	-	NA
Integral Boiler shell tappings	4.4.2.4	-	NA
Introduction	4.4.2.4.1	-	NA
General	4.4.2.4.2	-	NA
Design of all integral boiler waterways	4.4.2.4.3	-	NA
Venting of the water sections	4.4.2.4.4	-	NA
Water tightness	4.4.2.4.5	-	NA
Heat exchangers that are not directly in contact with fire or flue gases	4.4.2.5	-	NA

Requirement acc. to DIN EN 16510-1:2023-02	Clause	Tested Acc.	Requirement complies
Cleaning of heating surfaces	4.4.3	-	P
Flue gas outlet	4.4.4	-	P
Flueways	4.4.5	-	P
Components built-in the flue ways	4.4.6	-	NA
Ashpan and ash removal	4.4.7	-	P
Bottomgrate	4.4.8	-	P
Combustion air supply	4.4.9	-	P
Primary combustion air control device	4.4.9.1	-	NA
Secondary combustion air control device	4.4.9.2	-	NA
Damper	4.4.10	-	NA
Charging doors and ash-pit doors	4.4.11	-	P
Flue bypass device	4.4.12	-	NA
Internal flue gas diverter	4.4.13	-	NA
Front firebars	4.4.14	-	NA
Fossil solid fuel and peat briquettes burning appliances	4.4.15	-	NA
Draught regulator	4.4.16	-	NA
Cut-off device for inset appliances without doors	4.4.17	-	NA
Convection air outlet for inserts for Kachelofen/ Putzofen	4.4.18	-	NA
Oven door of cookers	4.4.19	-	NA
Hotplate and top plate of cookers	4.4.20	-	NA
Main/additional ovens of cookers	4.4.21	-	NA
Ashpit and ashpit cover/door of cookers	4.4.22	-	NA
Oven temperature indicators for cookers	4.4.23	-	NA
Air inlet for pellet appliances according to DIN EN 16510-2-6	4.4.24	-	P
Retort for pellet appliances according to DIN EN 16510-2-6	4.4.25	-	P
Heat output control device for pellet appliances according to DIN EN 16510-2-6	4.4.26	-	P
Hopper for pellet appliances according to DIN EN 16510-2-6	4.4.27	-	P
Sound level	4.5	-	P
Load bearing capacity	4.6	A.4.10.2	P

3.2 Safety requirements

Requirement acc. to DIN EN 16510-1:2023-02	Clause	Tested Acc.	Requirement complies
Natural draught	5.1	A.4.10.5 / A.6.2.8	NA
Open operation of an appliance	5.2	A.4.10.3	NA
Strength and leak tightness of integral boiler shells	5.3	A.4.10.6	NA
Temperature rise in the fuel storage (other than the fuel hopper)	5.4	A.4.7 / A.4.10	NA
Temperature rise of the operating components	5.5	A.4.7	P *
Protection of combustible materials	5.6	A.4.10 / A.2.2	P
Safety devices for appliances fitted with an integral boiler	5.7	-	NA
General	5.7.1	-	NA
Appliances intended for sealed water systems	5.7.2	-	NA
General	5.7.2.1	-	NA
Thermal discharge control	5.7.2.2	A.4.10.7	NA
Safety heat exchanger	5.7.2.3	A.4.10.7	NA
Safety devices for appliances fitted with a heat exchanger that are not directly in contact with fire	5.7.3	A.4.10.7	NA
Electrical safety and functional safety of electrical components	5.8	-	NT
General	5.8.1	-	NT
Electrical safety	5.8.2	-	NT
Functional safety of control functions with electrical components	5.8.3	-	NT
Risk assessment	5.8.4	-	NT
Safety requirements of roomsealed appliances	5.9	-	NA
Tightness related to CO-emission	5.9.1	-	NA
Overall leakage rate	5.9.2	-	NA
Minimum distances from non-combustible walls	5.10	A.4.7	P
Requirements for appliances suitable for a shared flue system	5.11	-	NA
General safety aspects of the water system	5.12	PED	NA

*) Glove / tool supplied

3.3 Operation requirements

Requirement acc. to DIN EN 16510-1:2023-02	Clause	Tested Acc.	Requirement complies
General	6.1	-	P
Flue gas temperature and flue gas outlet temperature	6.2	-	P
General	6.2.1	A.4.7 / A.4.8	P
Flue gas temperature at safety test	6.2.2	A.4.10.4	P *
Emissions	6.3	-	P
General	6.3.1	A.4.7 / A.4.8	P
Carbon monoxide emission	6.3.2	-	P
NO_x emissions	6.3.3	-	P
Emission of organic gaseous carbon (OGC)	6.3.4	-	P
Particulate matter (PM) emissions	6.3.5	-	P
Threshold levels for emissions according to appliance types	6.3.6	-	P
Efficiency	6.4	-	P
General	6.4.1		P
Seasonal space heating efficiency	6.4.2	A.6.2.1.5	P
Energy efficiency index (EEI)	6.4.3	A.6.2.1.6	P
Energy efficiency class	6.4.4	-	P
Flue draught	6.5	A.4.7 / A.4.8 / A.4.10	P
Recovery test	6.6	A.4.9	NA
Refuelling intervals	6.7	-	P
Space heat output	6.8	A.4.7 / A.4.8	P
Water heat output	6.9	A.4.7 / A.4.8	NA
User operations	6.10	-	P
Auxiliary electrical energy consumption	6.11	A.4.7 / A.4.8	P
Flue gas mass flow	6.12	A.4.7 / A.4.8	P

*) Temperature during safety test historically not recorded. Specified chimney T_{class} designation as the highest among commercially available chimney flue gas pipes (see also applicant declaration Appendix A02).

3.4 Environmental sustainability, clause 8

Performance assessments regarding environmental sustainability is not considered in this test procedure. A possible NDP declaration by the applicant is also not included in this procedure.

3.5 Appliance marking

Requirement acc. to DIN EN 16510-1:2023-02	Clause	Tested Acc.	Requirement complies
Marking and technical datasheet	10	-	P

4 Characteristics

Requirement acc. to DIN EN 16510-2-6:2023-02	Clause	Requirement complies
Load bearing capacity	4.1	P
Protection of combustible materials	4.2	P
Carbon monoxide emission (CO)	4.3	P
Nitrogen oxides (NO_x) emissions	4.4	P
Emission of organic gaseous compounds (OGC) emissions	4.5	P
Particulate matter (PM) emissions	4.6	P
Safety and accessibility in use	4.7	P
General	4.7.1	P
Flue gas outlet temperature at nominal heat output	4.7.2	P
Flue gas outlet temperature at part load heat output	4.7.3	P
Minimum flue draught at nominal heat output	4.7.4	P
Minimum flue draught at part load heat output	4.7.5	P
Flue gas mass flow at nominal heat output	4.7.6	P
Flue gas mass flow at part load heat output	4.7.7	P
Fire safety of installation to the chimney	4.7.8	P
Energy economy and heat retention	4.8	P
Space heat output at nominal heat output	4.8.1	P
Water heat output, if existing at nominal heat output	4.8.2	NA
Efficiency at nominal heat output	4.8.3	P
Space heat output at part load heat output	4.8.4	P
Water heat output, if existing at part load heat output	4.8.5	NA
Efficiency at part load heat output	4.8.6	P
Seasonal space heating efficiency at appliance’s nominal heat output	4.8.7	P
Energy efficiency	4.8.8	P
Electric power consumption at nominal heat output, if existing	4.8.9	P
Electric power consumption at part load heat output, if existing	4.8.10	P
Standby mode power consumption, if existing	4.8.11	P

5 Descriptive features

Requirement acc. to DIN EN 16510-2-6:2023-02	Clause	Requirement complies
Data for potential use with room ventilation system: type of appliance (in relation to its tightness to the room)	5.1	P
General	5.1.1	NA
Tightness related to CO-emissions	5.1.2	NA
Overall tightness	5.1.3	NA
Data for the building's statics: appliance's mass	5.2	P
Materials and construction elements	5.3	P
General	5.3.1	P
General stresses	5.3.2	P
Integral boiler or heat exchanger	5.3.3	NA
Risk of burning fuel falling out	5.4	P
Temperature rise in the fuel storage	5.5	NA
Temperature rise in the fuel hopper	5.5.1	P
Safety against back burning through the fuel conveyor system	5.5.2	P
Temperature rise of the operating components	5.6	P
Spillage of the flue gases into the room	5.7	P
Possible spillage of CO, if relevant for the fuel type	5.7.1	NA
Safety test for spillage of combustion gas and discharge of embers	5.7.2	P
Open operation	5.7.3	P
Cleanability	5.8	P
Heating surfaces	5.8.1	P
Flueways	5.8.2	P
Ashpan	5.8.3	P
Bottomgrate	5.8.4	NA
Damper	5.8.5	NA
Fan-cut-out device	5.8.6	NA
Strength and leak tightness of boiler shells	5.9	NA

6 Test results

6.1 Energy efficiency

6.1.1 Energy efficiency control features and test data

Models name	BABY5, WO60

Working condition	**Description**	**Parameter**	**Result**	**Unit**
Nominal heat output	Auxiliary electrical energy consumption at nominal heat output *	el_{max}	0,045	kW
Part load heat output	Auxiliary electrical energy consumption at part load heat output *	el_{min}	0,035	kW
Standby	Auxiliary electrical energy consumption in standby mode **	el_{SB}	0,001	kW

*) Average values, measured in accordance with EN 15456:2008.
**) Average value, measured in accordance with IEC 62301:2011.

Room temperature control
With electronic room temperature control plus week timer

Controls for indoor heating comfort	
Room temperature control with presence detection	No
Room temperature control with open window detection	No
Distance control option	Yes

6.1.2 Energy efficiency calculation

Models name	BABY5, WO60

Definition	Parameter	Unit	Result	Requirement
Appliance efficiency at nominal heat output	η_{nom}	%	88	-
Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)	F(2)	%	7	-
Contributions of controls of indoor heating comfort	F(3)	%	1	-
Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption	F(4)	%	1,9	-
Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame	F(5)	%	0	-
Biomass label factor	BLF	---	1,45	-
Seasonal space heating energy efficiency	η_s	%	84	≥ 79
Energy efficiency index	EEI	---	124	-
Energy efficiency classification	---	---	A+	-

6.2 Resume of combustion test results

Models name	BABY5, WO60

Definition	**Parameter**	**Unit**	**Nominal**	**Partial**	**Requirement**
Fuel consumption	M_h	kg/h	1,2	0,5	-
Minimum refuelling intervals	-	min	180	360	2 x 180 / 360
Flue gas mass flow	$\Phi_{f,g\ nom}$ / $\Phi_{f,g\ part}$	g/s	4,22	3,29	-
Flue gas temperature	T_{fg}	°C	168	97	-
Flue gas outlet temperature	T_{snom} / T_{spart}	°C	202	117	-
Flue draught	p_{nom} / p_{part}	Pa	12	5	≥ 12 / ≥ 6 or specified value
CO_2 concentration	CO_2	Vol.-%	9,2	5,2	-
O_2 concentration	O_2	Vol.-%	11,5	15,6	-
CO concentration	-	ppm	67	69	-
CO emission (13% O_2)	CO_{nom} (13% O_2) / CO_{part} (13% O_2)	mg/m³	71	130	≤ 300 / -
CO emission	-	mg/MJ	45	83	-
NO_x concentration	-	ppm	90	51	-
NO_x emission (13% O_2)	NO_{xnom} (13% O_2) / NO_{xpart} (13% O_2)	mg/m³	156	157	≤ 200 / -
NO_x emission	-	mg/MJ	100	100	-
OGC concentration	-	ppm	2	2	-
OGC emission (13% O_2)	OGC_{nom} (13% O_2) / OGC_{part} (13% O_2)	mg/m³	3	4	≤ 60 / -
OGC emission	-	mg/MJ	2	2	-
PM concentration *	-	mg/m³	23	13	-
PM emission (13% O_2)	PM_{nom} (13% O_2) / PM_{part} (13% O_2)	mg/m³	20	20	≤ 20 / -
PM emission	-	mg/MJ	13	13	-
Heat input	-	kW	5,6	2,5	-
Heat output	P_{nom} / P_{part}	kW	5,0	2,3	- / **
Water heat output	P_{Wnom} / P_{Wpart}	kW	-	-	-
Space heat output	P_{SHnom} / P_{SHpart}	kW	5,0	2,3	-
Efficiency	η_{nom} / η_{part}	%	88	90	-

*) Average of 3 samples, based on separate calculation

**) P_{part} < 0,4 × P_{nom} + 2kW for appliances ≥ 5 kW (at P_{nom})
P_{part} < 0,8 × P_{nom} for appliances < 5 kW (at P_{nom})

6.3 Temperatures

Models name	BABY5, WO60

Position	**Unit**	**Minimum distances from combustible walls. Test at nominal heat output and temperature safety test.**
Rear - d_R	mm	100
Side - d_S	mm	200
Side radiation area - d_L	mm	Historical data not available
Front - d_p	mm	800
Floor in Front - d_F	mm	Historical data not available
Ceiling - d_C	mm	Historical data not available
Bottom - d_B	mm	Historical data not available

Position	**Unit**	**Maximum temperature reached. Test at nominal heat output and temperature safety test.**	**Requirement**
Rear - d_R	K	7	≤ 65
Side - d_S	K	31	≤ 65
Side radiation area - d_L	K	Historical data not available	≤ 65
Front - d_p	K	30	≤ 65
Floor in Front - d_F	K	Historical data not available	**
Bottom - d_B	K	Historical data not available	**
Fuel hopper	K	45	≤ 65

**) The appliance has to be installed on a non-combustible base

Position	**Unit**	**Maximum temperature reached. Test at nominal heat output.**	**Requirement**
Control panel	K	41	≤ 60
Handle of fuel hopper	K	25	≤ 35
Handle of firedoor	K	116	*

*) Tool provided by the applicant

7 Statement of the test results

The appliance models:

BABY5, WO60

with trademark:

ESPERIA TECHNOLOGY

of the company:

Esperia Technology S.r.l.

conform for the operation with wood pellets with the requirements in accordance with DIN EN 16510-1:2023-02, except for clauses 5.8, 7 and 8, which are not part of this assessment. The appliances conform with the requirements of DIN EN 16510-2-6:2023-02 except for clause 4.9, which is not part of this assessment. Performance assessments regarding environmental sustainability is not the subject of this report.

Test data documented in this report are based on historical data of the initial type testing report n. K 3239 2022 T1 dated 13/05/2022 and issued in accordance with DIN EN 14785:2006-09 and Corr. 1 DIN EN 14785:2007-10.

8 Test documents

See test report K 3239 2022 T1 for further information.

TÜV Rheinland Energy & Environment GmbH declines any responsibility derived from missing or wrong information in the documents provided by the applicant.

Appendix	Subject	Reference
A 01.1	Type label BABY5	-
A 01.2	Type label WO60	-
A 02.1	Equivalence declaration BABY5	15/05/2025
A 02.2	Equivalence declaration WO60	15/05/2025

A01

CE 25

ESPERIA TECHNOLOGY S.r.l.

via dell'Impresa 31/33 BRENDOLA (VI) ITALY

TÜV Rheinland Energy & Environment GmbH (NB 2456)

Model BABY 5 DATE 05/2025

Serial 02BABY5N250001 TYPE B

DoP n. 0200-CPR-2013/07/01 EN 16510-2-6:2022

p_{nom}	5 kW	p_{part}	5 Pa	d_R	100 mm
P_{SHnom}	5 kW	CO_{nom} (13 % O_2)	71 mg/m^3	d_S	200 mm
P_{Wnom}	-	CO_{part} (13 % O_2)	130 mg/m^3	d_C	750 mm
P_{part}	2,3 kW	NO_{xnom} (13 % O_2)	156 mg/m^3	d_p	800 mm
P_{SHpart}	2,3 kW	NO_{xpart} (13 % O_2)	157 mg/m^3	d_F	800 mm
P_{wpart}	-	OGC_{nom}(13% O_2)	3 mg/m^3	d_L	800 mm
η_{nom}	88%	OGC_{part}(13% O_2)	4 mg/m^3	d_B	0 mm
η_{part}	90%	PM_{nom} (13 % O_2)	20 mg/m^3	*Wmax*	
p_{nom}	12 Pa	PM_{part} (13 % O_2)	20 mg/m^3	*290 W ,230 V, 50 Hz*	

Fuel:Pellet di legno(I) Wood pellet(GB) Holzpellets(D) Granulés de bois(F) Pellets de madera(E)

Utilizzare solo combustibili consigliati (I)

Use only recommended fuels (GB)

Verwenden Sie nur empfohlene Brennstoffe (D)

Utilisez uniquement les carburants recommandés (F)

Utilice únicamente combustibles recomendados (E)

Questo apparecchio non può essere utilizzato con una canna fumaria condivisa (I)

This appliance can't be used in shared flue pipe (GB)

Dieses Gerät kann nicht in einem gemeinsamen Rauchabzugsrohr verwendet werden (D)

Cet appareil ne peut pas être utilisé dans un conduit de fumée partagé (F)

Este aparato no se puede utilizar en conductos de humos compartidos (E)

Funzionamento continuo (CON) (I)

Continuos operation (CON) (GB)

Kontinuierlichen Betrieb (CON) (D)

Fonctionnement continu (CON) (F)

Funcionamiento continuo (CON) (E)

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ESPERIA TECHNOLOGY S.r.l.

via dell'Impresa 31/33 BRENDOLA (VI) ITALY

TÜV Rheinland Energy & Environment GmbH (NB 2456)

Model WO 60 N DATE 05/2025

Serial 02WO60N2500001 TYPE B

DoP n. 0201-CPR-2013/07/01 EN 16510-2-6:2022

P_{nom}	5 kW	P_{part}	5 Pa	d_R	100 mm
P_{SHnom}	5 kW	CO_{nom} (13 % O_2)	71 mg/m^3	d_S	200 mm
P_{Wnom}	-	CO_{part} (13 % O_2)	130 mg/m^3	d_C	750 mm
P_{part}	2,3 kW	NO_{xnom} (13 % O_2)	156 mg/m^3	d_P	800 mm
P_{SHpart}	2,3 kW	NO_{xpart} (13 % O_2)	157 mg/m^3	d_F	800 mm
P_{wpart}	-	OGC_{nom}(13% O_2)	3 mg/m^3	d_L	800 mm
η_{nom}	88%	OGC_{part}(13% O_2)	4 mg/m^3	d_B	0 mm
η_{part}	90%	PM_{nom} (13 % O_2)	20 mg/m^3	*Wmax*	
p_{nom}	12 Pa	PM_{part} (13 % O_2)	20 mg/m^3	*290 W ,230 V, 50 Hz*	

Fuel:Pellet di legno(I) Wood pellet(GB) Holzpellets(D) Granulés de bois(F) Pellets de madera(E)

Utilizzare solo combustibili consigliati (I)

Use only recommended fuels (GB)

Verwenden Sie nur empfohlene Brennstoffe (D)

Utilisez uniquement les carburants recommandés (F)

Utilice únicamente combustibles recomendados (E)

Questo apparecchio non può essere utilizzato con una canna fumaria condivisa (I)

This appliance can't be used in shared flue pipe (GB)

Dieses Gerät kann nicht in einem gemeinsamen Rauchabzugsrohr verwendet werden (D)

Cet appareil ne peut pas être utilisé dans un conduit de fumée partagé (F)

Este aparato no se puede utilizar en conductos de humos compartidos (E)

Funzionamento continuo (CON) (I)

Continuos operation (CON) (GB)

Kontinuierlichen Betrieb (CON) (D)

Fonctionnement continu (CON) (F)

Funcionamiento continuo (CON) (E)

A02

EQUIVALENCE DECLARATION

Il sottoscritto/*The subscriber* **Giovanni Vicentin**

legale rappresentante in qualità di (posizione aziendale)/*delegate in quality of* **Amministratore unico**

dell'azienda /*of the company* **Esperia Technology srl**,

sita in via/*located in address* **Via dell'Impresa**, n° **31/33**,

Città (Provincia)/*City* **Brendola (VI)**, tel. **0444/401510**,

dichiara che la stufa a pellet di marchio/*declares that the wood pellet stove with trademark* **Esperia Technology**

e modello/*and model* **BABY5**

ha le stesse caratteristiche costruttive del modello base del rapporto di prova n./ *has the same construction characteristics*

as the basic model of test report n° **K37602025T1, K37602025B2**

in particolar modo per quanto concerne/ *especially concerning*:

- Progetto e materiali/*Project and materials*
- Componenti utilizzati/*Used components and equipment*
- Camera di combustione/*Combustion chamber*
- Forma e dimensioni dei passaggi fumi/*Flue ways and relative sizes*
- Aria di combustione/*Combustion air*
- Serbatoio/*Integral fuel storage container (if any)*
- Prestazioni/*Performance characteristics*
- Emissioni/*Emission*
- Sistemi di sicurezza/*Safety systems*
- Vie d'acqua (se presenti)/*Waterways (if any)*

e che il manuale istruzioni contiene tutte le prescrizioni e le informazioni del manuale di origine, integrate e aggiornate dai requisiti del capitolo 7 della EN 16510-1 / *and that the instruction manual contains all the prescriptions and information of the original product manual, supplemented and updated by the requirements of Chapter 7 of EN 16510-1.*

Dichiara che, sulla scheda tecnica e sulla targa dati dell'(degli) apparecchio(i) sono riportati i seguenti parametri / *Declares that, in the technical datasheet and data plate of the appliance(s), are shown the following parameters:*

Parameter	Explanation	Specified data by the applicant
P_{nom}	Nominal heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{SHnom}	Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{Wnom}	Nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), given with 1 decimal	- kW
P_{part}	Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{SHpart}	Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{Wpart}	Part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	- kW
P_{slow}	Heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{SHslow}	Space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--

P_{Wslow}	Water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, with 1 decimal	--
$P_{acc\ in}$	Accumulator heat input, in kW or W for Kachelofen inset appliances only	--
$T_{acc\ in}$	Temperature at the separate heat exchanger inlet, for Kachelofen inset appliances only, given as an integer	--
ζ_{acc}	Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only	--
η_{nom}	Appliance efficiency at nominal heat output, given as an integer	88 %
η_{part}	Appliance efficiency at part load heat output, given as an integer	90 %
η_S	Appliance seasonal space heating efficiency at nominal heat output, given as an integer	84,3 %
EEI	Energy efficiency index, given as an integer	124
CO_{nom} (13 % O_2)	CO emission at 13 % oxygen content at nominal heat output, given as an integer	71 mg/m³
CO_{part} (13 % O_2)	CO emission at 13 % oxygen content at part load heat output if specified, given as an integer	130 mg/m³
CO_{slow} (13 % O_2)	CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
NO_{xnom} (13 % O_2)	NOx emission at 13 % oxygen content at nominal heat output, given as an integer	156 mg/m³
NO_{xpart} (13 % O_2)	NOx emission at 13 % oxygen content at part load heat output if specified, given as an integer	157 mg/m³
NO_{xslow} (13 % O_2)	NOx emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
OGC_{nom} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer	3 mg/m³
OGC_{part} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer	4 mg/m³
OGC_{slow} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
PM_{nom} (13 % O_2)	Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer	20 mg/m³
PM_{part} (13 % O_2)	Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer	20 mg/m³
PM_{slow} (13 % O_2)	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
p_{nom}	Minimum flue draught at nominal heat output, given as an integer	12 Pa
p_{part}	Minimum flue draught at part load heat output if specified, given as an integer	5 Pa
p_{slow}	Minimum flue draught at heat output at slow combustion if specified, given as an integer	--
p_W	Permissible maximum water operating pressure, if applicable, given with 1 decimal	--
d_R	Minimum distances from the rear to combustible material, given as an integer	100 mm
d_S	Minimum distances from the sides to combustible material, given as an integer	200 mm
d_C	Minimum distances from the top to combustible material in the ceiling, given as an integer	750 mm
d_P	Minimum distances from the front to combustible material	800 mm

d_F	Minimum distances from the front to combustible material in bottom front radiation area, given as an integer	800 mm
d_L	Minimum distances from the front to combustible material in side front radiation area, given as an integer	800 mm
d_B	Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer	0 mm
d_{non}	Minimum distances to non-combustible walls, given as an integer	--
s	Protective insulation according to manufacturer's instructions	--
el_{SB}	Consumption of electrical auxiliary energy at standby, given with 3 decimals	0,001 kW
el_{max}	Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals	0,045 kW
el_{min}	Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals	0,035 kW
E, f	Power supply voltage, frequency, given as an integer	--
W_{max}	Maximum electric power input, given as an integer	--
T_{snom}	Flue gas outlet temperature at nominal heat output, given as an integer	202 °C
T_{spart}	Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)	117 °C
T_{class}	Chimney designation according to the appropriate chimney standard	T 200 G
$\phi_{f,g\ nom}$	Flue gas mass flow at nominal heat output, given with 1 decimal	4.2 g/s
$\phi_{f,g\ part}$	Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)	3.3 g/s
V_h	Standing Air Loss, if specified, given with 1 decimal	---
CON or **INT**	whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT)	CON
d_{out}	Diameter of the flue gas outlet, given as an integer	80 mm
L, H, W	Overall dimensions of the appliance (length, height, width), given as an integer	560x825x440 mm
m	Mass of the appliance, given as an integer (in relation to the building's statics)	46 kg
m_{chim}	Maximum load of a chimney the appliance may carry, given as an integer	0

Dichiara infine che/*Declares finally that*:

L'azienda definisce, documenta e mantiene un sistema permanente di **FPC (controllo della produzione in fabbrica)** ed identifica le aree di responsabilità per assicurare che i prodotti immessi sul mercato siano conformi alle caratteristiche di prestazione dichiarate (vedasi il capitolo 6 delle parti 2 della serie EN 16510)/*The manufacturer uses and maintains a permanent system of FPC (Factory Production Control) and identifies the responsibility areas to ensure that the products introduced in the market comply with the declared characteristics (see clause 6 of the parts 2 of EN 16510 series).*

Data / *Date*:

13/05/25

Firma / *Signature*:

ESPERIA TECHNOLOGY Srl unipersonale
Via dell'Impresa, 31/33 - 36040 BRENDOLA
Tel. 0444 401510 - Fax 0444 601708
P.I. IT 03866020247 REA 343774

EQUIVALENCE DECLARATION

Il sottoscritto/*The subscriber* **Giovanni Vicentin**

legale rappresentante in qualità di (posizione aziendale)/*delegate in quality of* **Amministratore unico**

dell'azienda /*of the company* **Esperia Technology srl**,

sita in via/*located in address* **Via dell'Impresa**, n° **31/33**,

Città (Provincia)/*City* **Brendola (VI)**, tel. **0444/401510**,

dichiara che la stufa a pellet di marchio/*declares that the wood pellet stove with trademark* **Esperia Technology**

e modello/*and model* **WO60**

ha le stesse caratteristiche costruttive del modello base del rapporto di prova n./ *has the same construction characteristics*

as the basic model of test report n° **K37602025T1, K37602025B2**

in particolar modo per quanto concerne/ *especially concerning*:

- Progetto e materiali/*Project and materials*
- Componenti utilizzati/*Used components and equipment*
- Camera di combustione/*Combustion chamber*
- Forma e dimensioni dei passaggi fumi/*Flue ways and relative sizes*
- Aria di combustione/*Combustion air*
- Serbatoio/*Integral fuel storage container (if any)*
- Prestazioni/*Performance characteristics*
- Emissioni/*Emission*
- Sistemi di sicurezza/*Safety systems*
- Vie d'acqua (se presenti)/*Waterways (if any)*

e che il manuale istruzioni contiene tutte le prescrizioni e le informazioni del manuale di origine, integrate e aggiornate dai requisiti del capitolo 7 della EN 16510-1 / *and that the instruction manual contains all the prescriptions and information of the original product manual, supplemented and updated by the requirements of Chapter 7 of EN 16510-1.*

Dichiara che, sulla scheda tecnica e sulla targa dati dell'(degli) apparecchio(i) sono riportati i seguenti parametri / *Declares that, in the technical datasheet and data plate of the appliance(s), are shown the following parameters:*

Parameter	Explanation	Specified data by the applicant
P_{nom}	Nominal heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{SHnom}	Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal	5,0 kW
P_{Wnom}	Nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), given with 1 decimal	- kW
P_{part}	Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{SHpart}	Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	2,3 kW
P_{Wpart}	Part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	- kW
P_{slow}	Heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--
P_{SHslow}	Space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, given with 1 decimal	--

P_{Wslow}	Water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, with 1 decimal	--
$P_{acc\ in}$	Accumulator heat input, in kW or W for Kachelofen inset appliances only	--
$T_{acc\ in}$	Temperature at the separate heat exchanger inlet, for Kachelofen inset appliances only, given as an integer	--
ζ_{acc}	Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only	--
η_{nom}	Appliance efficiency at nominal heat output, given as an integer	88 %
η_{part}	Appliance efficiency at part load heat output, given as an integer	90 %
η_S	Appliance seasonal space heating efficiency at nominal heat output, given as an integer	84,3 %
EEI	Energy efficiency index, given as an integer	124
CO_{nom} (13 % O_2)	CO emission at 13 % oxygen content at nominal heat output, given as an integer	71 mg/m³
CO_{part} (13 % O_2)	CO emission at 13 % oxygen content at part load heat output if specified, given as an integer	130 mg/m³
CO_{slow} (13 % O_2)	CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
NO_{xnom} (13 % O_2)	NOx emission at 13 % oxygen content at nominal heat output, given as an integer	156 mg/m³
NO_{xpart} (13 % O_2)	NOx emission at 13 % oxygen content at part load heat output if specified, given as an integer	157 mg/m³
NO_{xslow} (13 % O_2)	NOx emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
OGC_{nom} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer	3 mg/m³
OGC_{part} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer	4 mg/m³
OGC_{slow} (13 % O_2)	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
PM_{nom} (13 % O_2)	Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer	20 mg/m³
PM_{part} (13 % O_2)	Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer	20 mg/m³
PM_{slow} (13 % O_2)	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer	--
p_{nom}	Minimum flue draught at nominal heat output, given as an integer	12 Pa
p_{part}	Minimum flue draught at part load heat output if specified, given as an integer	5 Pa
p_{slow}	Minimum flue draught at heat output at slow combustion if specified, given as an integer	--
p_W	Permissible maximum water operating pressure, if applicable, given with 1 decimal	--
d_R	Minimum distances from the rear to combustible material, given as an integer	100 mm
d_S	Minimum distances from the sides to combustible material, given as an integer	200 mm
d_C	Minimum distances from the top to combustible material in the ceiling, given as an integer	750 mm
d_p	Minimum distances from the front to combustible material	800 mm

d_F	Minimum distances from the front to combustible material in bottom front radiation area, given as an integer	800 mm
d_L	Minimum distances from the front to combustible material in side front radiation area, given as an integer	800 mm
d_B	Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer	0 mm
d_{non}	Minimum distances to non-combustible walls, given as an integer	--
s	Protective insulation according to manufacturer's instructions	--
el_{SB}	Consumption of electrical auxiliary energy at standby, given with 3 decimals	0,001 kW
el_{max}	Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals	0,045 kW
el_{min}	Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals	0,035 kW
E, f	Power supply voltage, frequency, given as an integer	--
W_{max}	Maximum electric power input, given as an integer	--
T_{snom}	Flue gas outlet temperature at nominal heat output, given as an integer	202 °C
T_{spart}	Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)	117 °C
T_{class}	Chimney designation according to the appropriate chimney standard	T 200 G
$\phi_{f,g\ nom}$	Flue gas mass flow at nominal heat output, given with 1 decimal	4.2 g/s
$\phi_{f,g\ part}$	Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)	3.3 g/s
V_h	Standing Air Loss, if specified, given with 1 decimal	---
CON or **INT**	whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT)	CON
d_{out}	Diameter of the flue gas outlet, given as an integer	80 mm
L, H, W	Overall dimensions of the appliance (length, height, width), given as an integer	515x870x490 mm
m	Mass of the appliance, given as an integer (in relation to the building's statics)	47 kg
m_{chim}	Maximum load of a chimney the appliance may carry, given as an integer	0

Dichiara infine che/*Declares finally that*:

L'azienda definisce, documenta e mantiene un sistema permanente di **FPC (controllo della produzione in fabbrica)** ed identifica le aree di responsabilità per assicurare che i prodotti immessi sul mercato siano conformi alle caratteristiche di prestazione dichiarate (vedasi il capitolo 6 delle parti 2 della serie EN 16510)/*The manufacturer uses and maintains a permanent system of FPC (Factory Production Control) and identifies the responsibility areas to ensure that the products introduced in the market comply with the declared characteristics (see clause 6 of the parts 2 of EN 16510 series).*

Data / *Date*:

15/05/25

Firma / *Signature*:

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