

**Report No. K 3819 2025 Z1**

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

**Renaming**

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

Models:

**00271022**

**00271023**

Trademarks:

**UNICAL, SCHUSTER, WIESBERG, ARIEL, ITALICAL**

Company:

**UNICAL AG SPA**



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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**Renaming**  
**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**

|                         |                                                                           |                 |
|-------------------------|---------------------------------------------------------------------------|-----------------|
| Applicant/contractor:   | <b>UNICAL AG SPA</b><br>Via Roma 123,<br>43033 Castel D'Ário (MN) - Italy |                 |
| Trademarks:             | <b>UNICAL, SCHUSTER, WIESBERG, ARIEL, ITALICAL</b>                        |                 |
| Model designation:      | <b>00271022</b>                                                           | <b>00271023</b> |
| Appliances description: | Mechanical by wood pellets fed roomheaters                                |                 |
| Test fuel:              | Wood pellets                                                              |                 |

**Specified data by applicant**

|                         |                  |                  |
|-------------------------|------------------|------------------|
| Type of appliance:      | B                |                  |
| Heat output:            | 6,5 kW – 19,2 kW | 7,9 kW – 22,8 kW |
| Space heat output:      | 1,1 kW – 1,8 kW  | 1,3 kW – 1,9 kW  |
| Water heat output:      | 5,4 kW – 17,4 kW | 6,6 kW – 20,9 kW |
| Max. water pressure:    | 3,0 bar          |                  |
| Max. water temperature: | 80,0 °C          |                  |

**Remarks:** Report data are based on historical data of the initial Type Testing report n. K 3589 2025 T1 dated 08/04/2025 and issued in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

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

**Test results:** the appliance conforms with the requirements of DIN EN 16510-1:2023-02, except for clauses 5.8, 5.8.4 and 8, which are not part of this assessment. The appliance conforms 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 are not the subject of this report. A possible NPD declaration by the manufacturer is also not included in this report.

Dated in Cologne, 2025-07-29

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

Assessor:



Dipl.-Ing. M. Ciccarelli

Report released after review:



Dipl.-Ing. A. Pomp

## 1 Task

The Test Centre for Energy Appliances was instructed to execute a renaming on the above-mentioned room heaters:

|                                                                                                                                                                                   |                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Initial type Testing:</b><br>AMG S.p.A.<br>Via delle Arti e dei Mestieri 1/3,<br>36030 San Vito di Leguzzano (VI) – Italy<br><br>Reports:<br>K 3589 2025 T1,<br>K 3589 2025 B2 | <b>Renaming:</b><br>UNICAL AG SPA<br>Via Roma 123,<br>43033 Castel D'Ário (MN) - Italy<br><br>Reports:<br>K 3819 2025 Z1 |
| <b>Trademark:</b><br>AMG                                                                                                                                                          | <b>Trademarks:</b><br>UNICAL, SCHUSTER, WIESBERG, ARIEL,<br>ITALICAL                                                     |
| <b>Model:</b><br><b>IDRO20-DD-AU</b>                                                                                                                                              | <b>Model:</b><br><b>00271022</b>                                                                                         |
| <b>Model:</b><br><b>IDRO24-DD-AU</b>                                                                                                                                              | <b>Model:</b><br><b>00271023</b>                                                                                         |

AMG S.p.A. and Unical AG SPA ensures that modifications on the renamed product have not been carried out, except than for external coverings and specified combustion data.

## **2 Description of the appliances**

### **2.1 Construction**

Mechanical by wood pellets fed roomheaters.

The main features of the appliances are:

- B type of appliances.
- Water heat exchanger
- Fan assisted exhaust flue gas discharge.
- Horizontal (backside) and upright exhaust flue gas outlet options.
- Pellet automatic ignition.
- combustion air is to be taken from outside

## 2.2 General technical specified data of the appliances

| Model name                                    | <b>00271022</b>                                                                                                                                     |                                 |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 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                                                           | 19,2 kW                         |
| $P_{SHnom}$                                   | Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal                                                     | 1,8 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                        | 17,4 kW                         |
| $P_{part}$                                    | Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                            | 6,5 kW                          |
| $P_{SHpart}$                                  | Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                      | 1,1 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         | 5,4 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                                         | --                              |
| $\zeta_{acc}$                                 | Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only                                            | --                              |
| $\eta_{nom}$                                  | Appliance efficiency at nominal heat output, given as an integer                                                                                    | 96 %                            |
| $\eta_{part}$                                 | Appliance efficiency at part load heat output, given as an integer                                                                                  | 96 %                            |
| $\eta_s$                                      | Appliance seasonal space heating efficiency at nominal heat output, given as an integer                                                             | 92 %                            |
| <b>EEI</b>                                    | Energy efficiency index, given as an integer                                                                                                        | 135                             |
| <b>CO<sub>nom</sub> (13 % O<sub>2</sub>)</b>  | CO emission at 13 % oxygen content at nominal heat output, given as an integer                                                                      | 200 mg/m <sup>3</sup>           |
| <b>CO<sub>part</sub> (13 % O<sub>2</sub>)</b> | CO emission at 13 % oxygen content at part load heat output if specified, given as an integer                                                       | 250 mg/m <sup>3</sup>           |
| <b>CO<sub>slow</sub> (13 % O<sub>2</sub>)</b> | CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer                                              | --                              |
| <b>NO<sub>xnom</sub> (13 % O<sub>2</sub>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at nominal heat output, given as an integer                                                         | 100 mg/m <sup>3</sup>           |

|                                                        |                                                                                                                        |                       |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b><math>NO_{xpart}</math> (13 % <math>O_2</math>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at part load heat output if specified, given as an integer             | 124 mg/m <sup>3</sup> |
| <b><math>NO_{xslow}</math> (13 % <math>O_2</math>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer    | --                    |
| <b><math>OGC_{nom}</math> (13 % <math>O_2</math>)</b>  | Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer                                | 5 mg/m <sup>3</sup>   |
| <b><math>OGC_{part}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer                 | 4 mg/m <sup>3</sup>   |
| <b><math>OGC_{slow}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer        | --                    |
| <b><math>PM_{nom}</math> (13 % <math>O_2</math>)</b>   | Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer                         | 10 mg/m <sup>3</sup>  |
| <b><math>PM_{part}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer          | 12 mg/m <sup>3</sup>  |
| <b><math>PM_{slow}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer | --                    |
| <b><math>p_{nom}</math></b>                            | Minimum flue draught at nominal heat output, given as an integer                                                       | 8 Pa                  |
| <b><math>p_{part}</math></b>                           | Minimum flue draught at part load heat output if specified, given as an integer                                        | 5 Pa                  |
| <b><math>p_{slow}</math></b>                           | Minimum flue draught at heat output at slow combustion if specified, given as an integer                               | --                    |
| <b><math>p_w</math></b>                                | Permissible maximum water operating pressure, if applicable, given with 1 decimal                                      | 3,0                   |
| <b><math>d_R</math></b>                                | Minimum distances from the rear to combustible material, given as an integer                                           | 100 mm                |
| <b><math>d_S</math></b>                                | Minimum distances from the sides to combustible material, given as an integer                                          | 200 mm                |
| <b><math>d_C</math></b>                                | Minimum distances from the top to combustible material in the ceiling, given as an integer                             | 750 mm                |
| <b><math>d_P</math></b>                                | Minimum distances from the front to combustible material                                                               | 2000 mm               |
| <b><math>d_F</math></b>                                | Minimum distances from the front to combustible material in bottom front radiation area, given as an integer           | 1500 mm               |
| <b><math>d_L</math></b>                                | Minimum distances from the front to combustible material in side front radiation area, given as an integer             | 1500 mm               |
| <b><math>d_B</math></b>                                | Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer                   | 0 mm                  |
| <b><math>d_{non}</math></b>                            | Minimum distances to non-combustible walls, given as an integer                                                        | --                    |
| <b><math>s</math></b>                                  | Protective insulation according to manufacturer's instructions                                                         | --                    |
| <b><math>e_{lSB}</math></b>                            | Consumption of electrical auxiliary energy at standby, given with 3 decimals                                           | 0,003 kW              |
| <b><math>e_{lmax}</math></b>                           | Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals                               | 0,060 kW              |
| <b><math>e_{lmin}</math></b>                           | Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals                             | 0,045 kW              |

|                                            |                                                                                                                                  |                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b><math>E, f</math></b>                   | Power supply voltage, frequency, given as an integer                                                                             | 230 V, 50 Hz    |
| <b><math>W_{\max}</math></b>               | Maximum electric power input, given as an integer                                                                                | 450 W           |
| <b><math>T_{\text{snom}}</math></b>        | Flue gas outlet temperature at nominal heat output, given as an integer                                                          | 115 °C          |
| <b><math>T_{\text{spart}}</math></b>       | Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)                      | 79 °C           |
| <b><math>T_{\text{class}}</math></b>       | Chimney designation according to the appropriate chimney standard                                                                | T200 G          |
| <b><math>\phi_{\text{r,g nom}}</math></b>  | Flue gas mass flow at nominal heat output, given with 1 decimal                                                                  | 11,2 g/s        |
| <b><math>\phi_{\text{r,g part}}</math></b> | Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)                              | 6,5 g/s         |
| <b><math>V_h</math></b>                    | Standing Air Loss, if specified, given with 1 decimal                                                                            | --              |
| <b>CON or INT</b>                          | whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT) | CON             |
| <b><math>d_{\text{out}}</math></b>         | Diameter of the flue gas outlet, given as an integer                                                                             | 80 mm           |
| <b><math>L, H, W</math></b>                | Overall dimensions of the appliance (length, height, width), given as an integer                                                 | 590x1250x690 mm |
| <b><math>m</math></b>                      | Mass of the appliance, given as an integer (in relation to the building's statics)                                               | 230 kg          |
| <b><math>m_{\text{chim}}</math></b>        | Maximum load of a chimney the appliance may carry, given as an integer                                                           | 0 kg            |

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.

| Model name                                     | <b>00271023</b>                                                                                                                                     |                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 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                                                           | 22,8 kW                         |
| $P_{SHnom}$                                    | Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal                                                     | 1,9 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                        | 20,9 kW                         |
| $P_{part}$                                     | Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                            | 7,9 kW                          |
| $P_{SHpart}$                                   | Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                      | 1,3 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         | 6,6 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                                         | --                              |
| $\zeta_{acc}$                                  | Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only                                            | --                              |
| $\eta_{nom}$                                   | Appliance efficiency at nominal heat output, given as an integer                                                                                    | 95 %                            |
| $\eta_{part}$                                  | Appliance efficiency at part load heat output, given as an integer                                                                                  | 94 %                            |
| $\eta_s$                                       | Appliance seasonal space heating efficiency at nominal heat output, given as an integer                                                             | 91 %                            |
| <b>EEI</b>                                     | Energy efficiency index, given as an integer                                                                                                        | 134                             |
| <b>CO<sub>nom</sub> (13 % O<sub>2</sub>)</b>   | CO emission at 13 % oxygen content at nominal heat output, given as an integer                                                                      | 237 mg/m <sup>3</sup>           |
| <b>CO<sub>part</sub> (13 % O<sub>2</sub>)</b>  | CO emission at 13 % oxygen content at part load heat output if specified, given as an integer                                                       | 287 mg/m <sup>3</sup>           |
| <b>CO<sub>slow</sub> (13 % O<sub>2</sub>)</b>  | CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer                                              | --                              |
| <b>NO<sub>xnom</sub> (13 % O<sub>2</sub>)</b>  | NO <sub>x</sub> emission at 13 % oxygen content at nominal heat output, given as an integer                                                         | 99 mg/m <sup>3</sup>            |
| <b>NO<sub>xpart</sub> (13 % O<sub>2</sub>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at part load heat output if specified, given as an integer                                          | 109 mg/m <sup>3</sup>           |

|                                                        |                                                                                                                        |                      |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b><math>NO_{xslow}</math> (13 % <math>O_2</math>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer    | --                   |
| <b><math>OGC_{nom}</math> (13 % <math>O_2</math>)</b>  | Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer                                | 3 mg/m <sup>3</sup>  |
| <b><math>OGC_{part}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer                 | 7 mg/m <sup>3</sup>  |
| <b><math>OGC_{slow}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer        | --                   |
| <b><math>PM_{nom}</math> (13 % <math>O_2</math>)</b>   | Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer                         | 10 mg/m <sup>3</sup> |
| <b><math>PM_{part}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer          | 10 mg/m <sup>3</sup> |
| <b><math>PM_{slow}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer | --                   |
| <b><math>p_{nom}</math></b>                            | Minimum flue draught at nominal heat output, given as an integer                                                       | 8 Pa                 |
| <b><math>p_{part}</math></b>                           | Minimum flue draught at part load heat output if specified, given as an integer                                        | 5 Pa                 |
| <b><math>p_{slow}</math></b>                           | Minimum flue draught at heat output at slow combustion if specified, given as an integer                               | --                   |
| <b><math>p_w</math></b>                                | Permissible maximum water operating pressure, if applicable, given with 1 decimal                                      | 3,0                  |
| <b><math>d_R</math></b>                                | Minimum distances from the rear to combustible material, given as an integer                                           | 100 mm               |
| <b><math>d_S</math></b>                                | Minimum distances from the sides to combustible material, given as an integer                                          | 200 mm               |
| <b><math>d_C</math></b>                                | Minimum distances from the top to combustible material in the ceiling, given as an integer                             | 750 mm               |
| <b><math>d_p</math></b>                                | Minimum distances from the front to combustible material                                                               | 2000 mm              |
| <b><math>d_F</math></b>                                | Minimum distances from the front to combustible material in bottom front radiation area, given as an integer           | 1500 mm              |
| <b><math>d_L</math></b>                                | Minimum distances from the front to combustible material in side front radiation area, given as an integer             | 1500 mm              |
| <b><math>d_B</math></b>                                | Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer                   | 0 mm                 |
| <b><math>d_{non}</math></b>                            | Minimum distances to non-combustible walls, given as an integer                                                        | --                   |
| <b><math>s</math></b>                                  | Protective insulation according to manufacturer's instructions                                                         | --                   |
| <b><math>e_{lSB}</math></b>                            | Consumption of electrical auxiliary energy at standby, given with 3 decimals                                           | 0,003 kW             |
| <b><math>e_{lmax}</math></b>                           | Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals                               | 0,072 kW             |
| <b><math>e_{lmin}</math></b>                           | Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals                             | 0,051 kW             |
| <b><math>E, f</math></b>                               | Power supply voltage, frequency, given as an integer                                                                   | 230 V, 50 Hz         |
| <b><math>W_{max}</math></b>                            | Maximum electric power input, given as an integer                                                                      | 450 W                |

|                             |                                                                                                                                  |                 |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| $T_{\text{snom}}$           | Flue gas outlet temperature at nominal heat output, given as an integer                                                          | 130 °C          |
| $T_{\text{spart}}$          | Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)                      | 90°C            |
| $T_{\text{class}}$          | Chimney designation according to the appropriate chimney standard                                                                | T200 G          |
| $\phi_{\text{f,g nom}}$     | Flue gas mass flow at nominal heat output, given with 1 decimal                                                                  | 13,5 g/s        |
| $\phi_{\text{f,g part}}$    | Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)                              | 9,1 g/s         |
| $V_h$                       | Standing Air Loss, if specified, given with 1 decimal                                                                            | --              |
| <b>CON or INT</b>           | whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT) | CON             |
| $d_{\text{out}}$            | Diameter of the flue gas outlet, given as an integer                                                                             | 80 mm           |
| <b><math>L, H, W</math></b> | Overall dimensions of the appliance (length, height, width), given as an integer                                                 | 590x1250x690 mm |
| <b><math>m</math></b>       | Mass of the appliance, given as an integer (in relation to the building's statics)                                               | 230 kg          |
| $m_{\text{chim}}$           | Maximum load of a chimney the appliance may carry, given as an integer                                                           | 0 kg            |

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 (see chapter 6.2 of the present report for the resume of the main combustion results).

### 3 Test results

Report data are based on historical data of the initial Type Testing report n. K 3589 2025 T1 dated 08.04.2025 and issued in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

#### 3.1 Energy efficiency

##### 3.1.1 Energy efficiency control features and test data

| Model name            | 00271022                                                           |                   |        |      |
|-----------------------|--------------------------------------------------------------------|-------------------|--------|------|
| Working condition     | Description                                                        | Parameter         | Result | Unit |
| Nominal heat output   | Auxiliary electrical energy consumption at nominal heat output *   | el <sub>max</sub> | 0,060  | kW   |
| Part load heat output | Auxiliary electrical energy consumption at part load heat output * | el <sub>min</sub> | 0,045  | kW   |
| Standby               | Auxiliary electrical energy consumption in standby mode **         | el <sub>SB</sub>  | 0,003  | kW   |

\*) Average values, measured according to EN 15456:2008.

\*\*) Average value, measured according to IEC 62301:2011.

| Model name            | 00271023                                                           |                   |        |      |
|-----------------------|--------------------------------------------------------------------|-------------------|--------|------|
| Working condition     | Description                                                        | Parameter         | Result | Unit |
| Nominal heat output   | Auxiliary electrical energy consumption at nominal heat output *   | el <sub>max</sub> | 0,072  | kW   |
| Part load heat output | Auxiliary electrical energy consumption at part load heat output * | el <sub>min</sub> | 0,051  | kW   |
| Standby               | Auxiliary electrical energy consumption in standby mode **         | el <sub>SB</sub>  | 0,003  | kW   |

\*) Average values, measured according to EN 15456:2008.

\*\*) Average value, measured according to IEC 62301:2011.

| Room temperature control (Models: 00271022, 00271023)    |     |
|----------------------------------------------------------|-----|
| 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 |

### 3.1.2 Energy efficiency calculation

|                    |                 |
|--------------------|-----------------|
| <b>Models name</b> | <b>00271022</b> |
|--------------------|-----------------|

| Definition                                                                                                 | Parameter    | Unit | Result | Requirement |
|------------------------------------------------------------------------------------------------------------|--------------|------|--------|-------------|
| Appliance efficiency at nominal heat output                                                                | $\eta_{nom}$ | %    | 96     | -           |
| Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)              | F(2)         | %    | 7,0    | -           |
| Contributions of controls of indoor heating comfort                                                        | F(3)         | %    | 0,0    | -           |
| Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption | F(4)         | %    | 0,5    | -           |
| Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame      | F(5)         | %    | 0,0    | -           |
| Biomass label factor                                                                                       | BLF          | ---  | 1,45   | -           |
| Seasonal space heating energy efficiency                                                                   | $\eta_s$     | %    | 92     | $\geq 79$   |
| Energy efficiency index                                                                                    | EEI          | ---  | 135    | -           |
| Energy efficiency classification                                                                           | ---          | ---  | A++    | -           |

|                    |                 |
|--------------------|-----------------|
| <b>Models name</b> | <b>00271023</b> |
|--------------------|-----------------|

| Definition                                                                                                 | Parameter    | Unit | Result | Requirement |
|------------------------------------------------------------------------------------------------------------|--------------|------|--------|-------------|
| Appliance efficiency at nominal heat output                                                                | $\eta_{nom}$ | %    | 95     | -           |
| Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)              | F(2)         | %    | 7,0    | -           |
| Contributions of controls of indoor heating comfort                                                        | F(3)         | %    | 0,0    | -           |
| Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption | F(4)         | %    | 0,5    | -           |
| Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame      | F(5)         | %    | 0,0    | -           |
| Biomass label factor                                                                                       | BLF          | ---  | 1,45   | -           |
| Seasonal space heating energy efficiency                                                                   | $\eta_s$     | %    | 91     | $\geq 79$   |
| Energy efficiency index                                                                                    | EEI          | ---  | 134    | -           |
| Energy efficiency classification                                                                           | ---          | ---  | A++    | -           |

### 3.2 Resume of combustion test results

| Model name                                     |                                                | <b>00271022</b>   |         |         |                                         |
|------------------------------------------------|------------------------------------------------|-------------------|---------|---------|-----------------------------------------|
| Definition                                     | Parameter                                      | Unit              | Nominal | Partial | Requirement                             |
| Fuel consumption                               | $M_h$                                          | kg/h              | 4.19    | 1.41    | -                                       |
| Minimum refuelling intervals                   | -                                              | min               | 180     | 360     | 2 x 180 / 360                           |
| Flue gas mass flow                             | $\Phi_{f,g}$                                   | g/s               | 11.2    | 6.5     | -                                       |
| Flue gas temperature                           | $T_{fg}$                                       | °C                | 96.3    | 65.7    | -                                       |
| Flue gas outlet temperature                    | $T_{snom}$                                     | °C                | 115.6   | 78.8    | -                                       |
| Flue draught                                   | $p_{nom} / p_{part}$                           | Pa                | 8       | 5       | $\geq 12 / \geq 6$<br>or declared value |
| CO <sub>2</sub> concentration                  | CO <sub>2</sub>                                | Vol.-%            | 12.6    | 7.1     | -                                       |
| O <sub>2</sub> concentration                   | O <sub>2</sub>                                 | Vol.-%            | 7.7     | 13.5    | -                                       |
| CO concentration                               | -                                              | ppm               | 30      | 80      | -                                       |
| CO emission (13% O <sub>2</sub> )              | $CO_{nom} (13\% O_2) / CO_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 23      | 107     | $\leq 300 / -$                          |
| CO emission                                    | -                                              | mg/MJ             | 15      | 69      | -                                       |
| NO <sub>x</sub> concentration                  | -                                              | ppm               | 81      | 52      | -                                       |
| NO <sub>x</sub> emission (13% O <sub>2</sub> ) | $NO_{xnom} (13\% O_2) / NO_{xpart} (13\% O_2)$ | mg/m <sup>3</sup> | 100     | 114     | $\leq 200 / -$                          |
| NO <sub>x</sub> emission                       | -                                              | mg/MJ             | 65      | 74      | -                                       |
| OGC emission (13% O <sub>2</sub> )             | $OGC_{nom} (13\% O_2) / OGC_{part} (13\% O_2)$ | mg/m <sup>3</sup> | 2       | 3       | $\leq 60 / -$                           |
| OGC emission                                   | -                                              | mg/MJ             | 1       | 2       | -                                       |
| PM emission (13% O <sub>2</sub> )              | $PM_{nom} (13\% O_2) / PM_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 10      | 12      | $\leq 20 / -$                           |
| PM emission                                    | -                                              | mg/MJ             | 6       | 8       | -                                       |
| Heat input                                     | -                                              | kW                | 20.1    | 6.8     | -                                       |
| Heat output                                    | $P_{nom} / P_{part}$                           | kW                | 19.2    | 6.5     | -                                       |
| Water heat output                              | $P_{Wnom} / P_{Wpart}$                         | kW                | 17.4    | 5.4     | -                                       |
| Space heat output                              | $P_{SHnom} / P_{SHpart}$                       | kW                | 1.8     | 1.1     | -                                       |
| Efficiency                                     | $\eta_{nom} / \eta_{part}$                     | %                 | 95.6    | 95.9    | -                                       |

| Model name                                     |                                                | <b>00271023</b>   |         |         |                                         |
|------------------------------------------------|------------------------------------------------|-------------------|---------|---------|-----------------------------------------|
| Definition                                     | Parameter                                      | Unit              | Nominal | Partial | Requirement                             |
| Fuel consumption                               | $M_h$                                          | kg/h              | 5.01    | 1.75    | -                                       |
| Minimum refuelling intervals                   | -                                              | min               | 180     | 360     | 2 x 180 / 360                           |
| Flue gas mass flow                             | $\Phi_{f,g}$                                   | g/s               | 13.5    | 9.1     | -                                       |
| Flue gas temperature                           | $T_{fg}$                                       | °C                | 107.6   | 75.3    | -                                       |
| Flue gas outlet temperature                    | $T_{snom}$                                     | °C                | 129.1   | 90.4    | -                                       |
| Flue draught                                   | $p_{nom} / p_{part}$                           | Pa                | 8       | 5       | $\geq 12 / \geq 6$<br>or declared value |
| CO <sub>2</sub> concentration                  | CO <sub>2</sub>                                | Vol.-%            | 12.5    | 6.1     | -                                       |
| O <sub>2</sub> concentration                   | O <sub>2</sub>                                 | Vol.-%            | 7.8     | 14.5    | -                                       |
| CO concentration                               | -                                              | ppm               | 48      | 127     | -                                       |
| CO emission (13% O <sub>2</sub> )              | $CO_{nom} (13\% O_2) / CO_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 36      | 195     | $\leq 300 / -$                          |
| CO emission                                    | -                                              | mg/MJ             | 23      | 126     | -                                       |
| NO <sub>x</sub> concentration                  | -                                              | ppm               | 80      | 43      | -                                       |
| NO <sub>x</sub> emission (13% O <sub>2</sub> ) | $NO_{xnom} (13\% O_2) / NO_{xpart} (13\% O_2)$ | mg/m <sup>3</sup> | 99      | 109     | $\leq 200 / -$                          |
| NO <sub>x</sub> emission                       | -                                              | mg/MJ             | 64      | 71      | -                                       |
| OGC emission (13% O <sub>2</sub> )             | $OGC_{nom} (13\% O_2) / OGC_{part} (13\% O_2)$ | mg/m <sup>3</sup> | 1       | 5       | $\leq 60 / -$                           |
| OGC emission                                   | -                                              | mg/MJ             | 1       | 3       | -                                       |
| PM emission (13% O <sub>2</sub> )              | $PM_{nom} (13\% O_2) / PM_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 10      | 10      | $\leq 20 / -$                           |
| PM emission                                    | -                                              | mg/MJ             | 6       | 6       | -                                       |
| Heat input                                     | -                                              | kW                | 24.0    | 8.4     | -                                       |
| Heat output                                    | $P_{nom} / P_{part}$                           | kW                | 22.8    | 7.9     | -                                       |
| Water heat output                              | $P_{Wnom} / P_{Wpart}$                         | kW                | 20.9    | 6.6     | -                                       |
| Space heat output                              | $P_{SHnom} / P_{SHpart}$                       | kW                | 1.9     | 1.3     | -                                       |
| Efficiency                                     | $\eta_{nom} / \eta_{part}$                     | %                 | 94.9    | 94.2    | -                                       |

## **4 Statement of the test results**

The appliances

**00271022, 00271023**

with trademarks:

**UNICAL, SCHUSTER, WIESBERG, ARIEL, ITALICAL**

of the company:

**UNICAL AG SPA**

conform for the operation with wood pellets with the requirements in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02, except for clauses 5.8, 5.8.4 and 8, which are not part of this assessment. The appliance conforms 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 are not the subject of this report. A possible NPD declaration by the manufacturer is also not included in this report.

Report data are based on historical data of the initial Type Testing report n. K 3589 2025 T1 dated 08.04.2025 and issued in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

## 5 Test documents

See test report K 3589 2025 T1.

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     | Type label               | -          |
| A 02     | Extension Declaration    | 09.07.2025 |
| A 03     | Declaration About Manual | 09.07.2025 |
| A 04     | Drawing                  |            |
| A 05     | Declaration manufacturer |            |



Come da allegato all'attestato inerente il report tecnico  
*How from annex to the declaration concerning Technical report*  
*Tel qu'attaché au certificat relatif au rapport technique*

n° K38192025Z1  
del 29/07/2025

e in conformità all' Annex G della Norma EN 16510-1:2022, l'azienda UNICAL AG S.p.A. dichiara che gli apparecchi:  
*and according to Annex G of the standard EN 16510-1:2022, the company UNICAL AG S.p.A. declare that the appliances:*  
*et conformément au Annex G de la norme EN 16510-1:2022, UNICAL AG S.p.A. déclare que les appareils:*

|                                       |          |
|---------------------------------------|----------|
| Modelli / Models / Modèles (ID MODEL) | 00271022 |
|---------------------------------------|----------|

sono rappresentativi della famiglia a cui appartengono i seguenti modelli:  
*are representative of the family to which belong the following models:*  
*ils sont représentatifs de la famille à laquelle appartiennent les modèles suivants:*

|                                             |          |                   |
|---------------------------------------------|----------|-------------------|
| Marchio commerciale<br>Trade mark<br>Marque | SCHUSTER |                   |
| MODELLI / Models / Modèles                  | 00271022 | IDRA 20 - 5★      |
|                                             | 00271022 | IDRA EASY 20 - 5★ |
|                                             |          |                   |

**Firmato a nome e per conto del fabbricante da Nicola Micheletti (Procurator)**

*Signé au nom et pour le compte du fabricant par Nicola Micheletti (Procurator)*

Luogo: Castel d'Ario (MN)  
*Place / Ville: Castel d'Ario (MN)*

Data 30/07/2025  
*Date 30/07/2025*

Firma  
*Sign.*

**Unical AG** S.p.A.  
SEDE: Via Roma, 123 - CASTEL D'ARIO (MN)  
C.F. / P.IVA 01501350209  
DIVISIONE: Viale Europa, 3/5  
36053 Gambellara (VI)

**Report No. K 3819 2025 Z1**

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

**Renaming**

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

Models:

**00271022**

**00271023**

Trademarks:

**UNICAL, SCHUSTER, WIESBERG, ARIEL, ITALICAL**

Company:

**UNICAL AG SPA**



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.**

**Renaming**  
**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**

|                         |                                                                           |                 |
|-------------------------|---------------------------------------------------------------------------|-----------------|
| Applicant/contractor:   | <b>UNICAL AG SPA</b><br>Via Roma 123,<br>43033 Castel D'Ário (MN) - Italy |                 |
| Trademarks:             | <b>UNICAL, SCHUSTER, WIESBERG, ARIEL, ITALICAL</b>                        |                 |
| Model designation:      | <b>00271022</b>                                                           | <b>00271023</b> |
| Appliances description: | Mechanical by wood pellets fed roomheaters                                |                 |
| Test fuel:              | Wood pellets                                                              |                 |

**Specified data by applicant**

|                         |                  |                  |
|-------------------------|------------------|------------------|
| Type of appliance:      | B                |                  |
| Heat output:            | 6,5 kW – 19,2 kW | 7,9 kW – 22,8 kW |
| Space heat output:      | 1,1 kW – 1,8 kW  | 1,3 kW – 1,9 kW  |
| Water heat output:      | 5,4 kW – 17,4 kW | 6,6 kW – 20,9 kW |
| Max. water pressure:    | 3,0 bar          |                  |
| Max. water temperature: | 80,0 °C          |                  |

**Remarks:** Report data are based on historical data of the initial Type Testing report n. K 3589 2025 T1 dated 08/04/2025 and issued in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

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

**Test results:** the appliance conforms with the requirements of DIN EN 16510-1:2023-02, except for clauses 5.8, 5.8.4 and 8, which are not part of this assessment. The appliance conforms 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 are not the subject of this report. A possible NPD declaration by the manufacturer is also not included in this report.

Dated in Cologne, 2025-07-29

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

Assessor:



Dipl.-Ing. M. Ciccarelli

Report released after review:



Dipl.-Ing. A. Pomp

## 1 Task

The Test Centre for Energy Appliances was instructed to execute a renaming on the above-mentioned room heaters:

|                                                                                                                                                                                   |                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Initial type Testing:</b><br>AMG S.p.A.<br>Via delle Arti e dei Mestieri 1/3,<br>36030 San Vito di Leguzzano (VI) – Italy<br><br>Reports:<br>K 3589 2025 T1,<br>K 3589 2025 B2 | <b>Renaming:</b><br>UNICAL AG SPA<br>Via Roma 123,<br>43033 Castel D'Ário (MN) - Italy<br><br>Reports:<br>K 3819 2025 Z1 |
| <b>Trademark:</b><br>AMG                                                                                                                                                          | <b>Trademarks:</b><br>UNICAL, SCHUSTER, WIESBERG, ARIEL,<br>ITALICAL                                                     |
| <b>Model:</b><br><b>IDRO20-DD-AU</b>                                                                                                                                              | <b>Model:</b><br><b>00271022</b>                                                                                         |
| <b>Model:</b><br><b>IDRO24-DD-AU</b>                                                                                                                                              | <b>Model:</b><br><b>00271023</b>                                                                                         |

AMG S.p.A. and Unical AG SPA ensures that modifications on the renamed product have not been carried out, except than for external coverings and specified combustion data.

## **2 Description of the appliances**

### **2.1 Construction**

Mechanical by wood pellets fed roomheaters.

The main features of the appliances are:

- B type of appliances.
- Water heat exchanger
- Fan assisted exhaust flue gas discharge.
- Horizontal (backside) and upright exhaust flue gas outlet options.
- Pellet automatic ignition.
- combustion air is to be taken from outside

## 2.2 General technical specified data of the appliances

| Model name                                    | <b>00271022</b>                                                                                                                                     |                                 |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 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                                                           | 19,2 kW                         |
| $P_{SHnom}$                                   | Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal                                                     | 1,8 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                        | 17,4 kW                         |
| $P_{part}$                                    | Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                            | 6,5 kW                          |
| $P_{SHpart}$                                  | Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                      | 1,1 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         | 5,4 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                                         | --                              |
| $\zeta_{acc}$                                 | Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only                                            | --                              |
| $\eta_{nom}$                                  | Appliance efficiency at nominal heat output, given as an integer                                                                                    | 96 %                            |
| $\eta_{part}$                                 | Appliance efficiency at part load heat output, given as an integer                                                                                  | 96 %                            |
| $\eta_s$                                      | Appliance seasonal space heating efficiency at nominal heat output, given as an integer                                                             | 92 %                            |
| <b>EEI</b>                                    | Energy efficiency index, given as an integer                                                                                                        | 135                             |
| <b>CO<sub>nom</sub> (13 % O<sub>2</sub>)</b>  | CO emission at 13 % oxygen content at nominal heat output, given as an integer                                                                      | 200 mg/m <sup>3</sup>           |
| <b>CO<sub>part</sub> (13 % O<sub>2</sub>)</b> | CO emission at 13 % oxygen content at part load heat output if specified, given as an integer                                                       | 250 mg/m <sup>3</sup>           |
| <b>CO<sub>slow</sub> (13 % O<sub>2</sub>)</b> | CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer                                              | --                              |
| <b>NO<sub>xnom</sub> (13 % O<sub>2</sub>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at nominal heat output, given as an integer                                                         | 100 mg/m <sup>3</sup>           |

|                                                        |                                                                                                                        |                       |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b><math>NO_{xpart}</math> (13 % <math>O_2</math>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at part load heat output if specified, given as an integer             | 124 mg/m <sup>3</sup> |
| <b><math>NO_{xslow}</math> (13 % <math>O_2</math>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer    | --                    |
| <b><math>OGC_{nom}</math> (13 % <math>O_2</math>)</b>  | Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer                                | 5 mg/m <sup>3</sup>   |
| <b><math>OGC_{part}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer                 | 4 mg/m <sup>3</sup>   |
| <b><math>OGC_{slow}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer        | --                    |
| <b><math>PM_{nom}</math> (13 % <math>O_2</math>)</b>   | Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer                         | 10 mg/m <sup>3</sup>  |
| <b><math>PM_{part}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer          | 12 mg/m <sup>3</sup>  |
| <b><math>PM_{slow}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer | --                    |
| <b><math>p_{nom}</math></b>                            | Minimum flue draught at nominal heat output, given as an integer                                                       | 8 Pa                  |
| <b><math>p_{part}</math></b>                           | Minimum flue draught at part load heat output if specified, given as an integer                                        | 5 Pa                  |
| <b><math>p_{slow}</math></b>                           | Minimum flue draught at heat output at slow combustion if specified, given as an integer                               | --                    |
| <b><math>p_w</math></b>                                | Permissible maximum water operating pressure, if applicable, given with 1 decimal                                      | 3,0                   |
| <b><math>d_R</math></b>                                | Minimum distances from the rear to combustible material, given as an integer                                           | 100 mm                |
| <b><math>d_S</math></b>                                | Minimum distances from the sides to combustible material, given as an integer                                          | 200 mm                |
| <b><math>d_C</math></b>                                | Minimum distances from the top to combustible material in the ceiling, given as an integer                             | 750 mm                |
| <b><math>d_P</math></b>                                | Minimum distances from the front to combustible material                                                               | 2000 mm               |
| <b><math>d_F</math></b>                                | Minimum distances from the front to combustible material in bottom front radiation area, given as an integer           | 1500 mm               |
| <b><math>d_L</math></b>                                | Minimum distances from the front to combustible material in side front radiation area, given as an integer             | 1500 mm               |
| <b><math>d_B</math></b>                                | Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer                   | 0 mm                  |
| <b><math>d_{non}</math></b>                            | Minimum distances to non-combustible walls, given as an integer                                                        | --                    |
| <b><math>s</math></b>                                  | Protective insulation according to manufacturer's instructions                                                         | --                    |
| <b><math>e_{lSB}</math></b>                            | Consumption of electrical auxiliary energy at standby, given with 3 decimals                                           | 0,003 kW              |
| <b><math>e_{lmax}</math></b>                           | Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals                               | 0,060 kW              |
| <b><math>e_{lmin}</math></b>                           | Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals                             | 0,045 kW              |

|                                            |                                                                                                                                  |                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b><math>E, f</math></b>                   | Power supply voltage, frequency, given as an integer                                                                             | 230 V, 50 Hz    |
| <b><math>W_{\max}</math></b>               | Maximum electric power input, given as an integer                                                                                | 450 W           |
| <b><math>T_{\text{snom}}</math></b>        | Flue gas outlet temperature at nominal heat output, given as an integer                                                          | 115 °C          |
| <b><math>T_{\text{spart}}</math></b>       | Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)                      | 79 °C           |
| <b><math>T_{\text{class}}</math></b>       | Chimney designation according to the appropriate chimney standard                                                                | T200 G          |
| <b><math>\phi_{\text{r,g nom}}</math></b>  | Flue gas mass flow at nominal heat output, given with 1 decimal                                                                  | 11,2 g/s        |
| <b><math>\phi_{\text{r,g part}}</math></b> | Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)                              | 6,5 g/s         |
| <b><math>V_{\text{h}}</math></b>           | Standing Air Loss, if specified, given with 1 decimal                                                                            | --              |
| <b>CON or INT</b>                          | whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT) | CON             |
| <b><math>d_{\text{out}}</math></b>         | Diameter of the flue gas outlet, given as an integer                                                                             | 80 mm           |
| <b><math>L, H, W</math></b>                | Overall dimensions of the appliance (length, height, width), given as an integer                                                 | 590x1250x690 mm |
| <b><math>m</math></b>                      | Mass of the appliance, given as an integer (in relation to the building's statics)                                               | 230 kg          |
| <b><math>m_{\text{chim}}</math></b>        | Maximum load of a chimney the appliance may carry, given as an integer                                                           | 0 kg            |

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.

| Model name                                     | <b>00271023</b>                                                                                                                                     |                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 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                                                           | 22,8 kW                         |
| $P_{SHnom}$                                    | Nominal space heat output or a range of outputs (dependent on fuel types), given with 1 decimal                                                     | 1,9 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                        | 20,9 kW                         |
| $P_{part}$                                     | Part load heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                            | 7,9 kW                          |
| $P_{SHpart}$                                   | Part load space heat output or a range of outputs (dependent on fuel types) if specified, given with 1 decimal                                      | 1,3 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         | 6,6 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                                         | --                              |
| $\zeta_{acc}$                                  | Flow resistance of the separate heat exchanger as used in the test, for Kachelofen inset appliances only                                            | --                              |
| $\eta_{nom}$                                   | Appliance efficiency at nominal heat output, given as an integer                                                                                    | 95 %                            |
| $\eta_{part}$                                  | Appliance efficiency at part load heat output, given as an integer                                                                                  | 94 %                            |
| $\eta_s$                                       | Appliance seasonal space heating efficiency at nominal heat output, given as an integer                                                             | 91 %                            |
| <b>EEI</b>                                     | Energy efficiency index, given as an integer                                                                                                        | 134                             |
| <b>CO<sub>nom</sub> (13 % O<sub>2</sub>)</b>   | CO emission at 13 % oxygen content at nominal heat output, given as an integer                                                                      | 237 mg/m <sup>3</sup>           |
| <b>CO<sub>part</sub> (13 % O<sub>2</sub>)</b>  | CO emission at 13 % oxygen content at part load heat output if specified, given as an integer                                                       | 287 mg/m <sup>3</sup>           |
| <b>CO<sub>slow</sub> (13 % O<sub>2</sub>)</b>  | CO emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer                                              | --                              |
| <b>NO<sub>xnom</sub> (13 % O<sub>2</sub>)</b>  | NO <sub>x</sub> emission at 13 % oxygen content at nominal heat output, given as an integer                                                         | 99 mg/m <sup>3</sup>            |
| <b>NO<sub>xpart</sub> (13 % O<sub>2</sub>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at part load heat output if specified, given as an integer                                          | 109 mg/m <sup>3</sup>           |

|                                                        |                                                                                                                        |                      |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b><math>NO_{xslow}</math> (13 % <math>O_2</math>)</b> | NO <sub>x</sub> emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer    | --                   |
| <b><math>OGC_{nom}</math> (13 % <math>O_2</math>)</b>  | Hydrocarbon emission at 13 % oxygen content at nominal heat output, given as an integer                                | 3 mg/m <sup>3</sup>  |
| <b><math>OGC_{part}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, given as an integer                 | 7 mg/m <sup>3</sup>  |
| <b><math>OGC_{slow}</math> (13 % <math>O_2</math>)</b> | Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer        | --                   |
| <b><math>PM_{nom}</math> (13 % <math>O_2</math>)</b>   | Particulate matter emission at 13 % oxygen content at nominal heat output, given as an integer                         | 10 mg/m <sup>3</sup> |
| <b><math>PM_{part}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at part load heat output if specified, given as an integer          | 10 mg/m <sup>3</sup> |
| <b><math>PM_{slow}</math> (13 % <math>O_2</math>)</b>  | Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, given as an integer | --                   |
| <b><math>p_{nom}</math></b>                            | Minimum flue draught at nominal heat output, given as an integer                                                       | 8 Pa                 |
| <b><math>p_{part}</math></b>                           | Minimum flue draught at part load heat output if specified, given as an integer                                        | 5 Pa                 |
| <b><math>p_{slow}</math></b>                           | Minimum flue draught at heat output at slow combustion if specified, given as an integer                               | --                   |
| <b><math>p_w</math></b>                                | Permissible maximum water operating pressure, if applicable, given with 1 decimal                                      | 3,0                  |
| <b><math>d_R</math></b>                                | Minimum distances from the rear to combustible material, given as an integer                                           | 100 mm               |
| <b><math>d_S</math></b>                                | Minimum distances from the sides to combustible material, given as an integer                                          | 200 mm               |
| <b><math>d_C</math></b>                                | Minimum distances from the top to combustible material in the ceiling, given as an integer                             | 750 mm               |
| <b><math>d_p</math></b>                                | Minimum distances from the front to combustible material                                                               | 2000 mm              |
| <b><math>d_F</math></b>                                | Minimum distances from the front to combustible material in bottom front radiation area, given as an integer           | 1500 mm              |
| <b><math>d_L</math></b>                                | Minimum distances from the front to combustible material in side front radiation area, given as an integer             | 1500 mm              |
| <b><math>d_B</math></b>                                | Minimum distances below the bottom (not regarding feet) to combustible material, given as an integer                   | 0 mm                 |
| <b><math>d_{non}</math></b>                            | Minimum distances to non-combustible walls, given as an integer                                                        | --                   |
| <b><math>s</math></b>                                  | Protective insulation according to manufacturer's instructions                                                         | --                   |
| <b><math>e_{lSB}</math></b>                            | Consumption of electrical auxiliary energy at standby, given with 3 decimals                                           | 0,003 kW             |
| <b><math>e_{lmax}</math></b>                           | Consumption of electrical auxiliary energy at nominal heat output, given with 3 decimals                               | 0,072 kW             |
| <b><math>e_{lmin}</math></b>                           | Consumption of electrical auxiliary energy at part load heat output, given with 3 decimals                             | 0,051 kW             |
| <b><math>E, f</math></b>                               | Power supply voltage, frequency, given as an integer                                                                   | 230 V, 50 Hz         |
| <b><math>W_{max}</math></b>                            | Maximum electric power input, given as an integer                                                                      | 450 W                |

|                             |                                                                                                                                  |                 |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| $T_{\text{snom}}$           | Flue gas outlet temperature at nominal heat output, given as an integer                                                          | 130 °C          |
| $T_{\text{spart}}$          | Flue gas outlet temperature at part load heat output, given as an integer (given for pellet operation only)                      | 90°C            |
| $T_{\text{class}}$          | Chimney designation according to the appropriate chimney standard                                                                | T200 G          |
| $\phi_{\text{f,g nom}}$     | Flue gas mass flow at nominal heat output, given with 1 decimal                                                                  | 13,5 g/s        |
| $\phi_{\text{f,g part}}$    | Flue gas mass flow at part load heat output, given with 1 decimal (given for pellet operation only)                              | 9,1 g/s         |
| $V_h$                       | Standing Air Loss, if specified, given with 1 decimal                                                                            | --              |
| <b>CON or INT</b>           | whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT) | CON             |
| $d_{\text{out}}$            | Diameter of the flue gas outlet, given as an integer                                                                             | 80 mm           |
| <b><math>L, H, W</math></b> | Overall dimensions of the appliance (length, height, width), given as an integer                                                 | 590x1250x690 mm |
| <b><math>m</math></b>       | Mass of the appliance, given as an integer (in relation to the building's statics)                                               | 230 kg          |
| $m_{\text{chim}}$           | Maximum load of a chimney the appliance may carry, given as an integer                                                           | 0 kg            |

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 (see chapter 6.2 of the present report for the resume of the main combustion results).

### 3 Test results

Report data are based on historical data of the initial Type Testing report n. K 3589 2025 T1 dated 08.04.2025 and issued in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

#### 3.1 Energy efficiency

##### 3.1.1 Energy efficiency control features and test data

| Model name            | 00271022                                                           |                   |        |      |
|-----------------------|--------------------------------------------------------------------|-------------------|--------|------|
| Working condition     | Description                                                        | Parameter         | Result | Unit |
| Nominal heat output   | Auxiliary electrical energy consumption at nominal heat output *   | el <sub>max</sub> | 0,060  | kW   |
| Part load heat output | Auxiliary electrical energy consumption at part load heat output * | el <sub>min</sub> | 0,045  | kW   |
| Standby               | Auxiliary electrical energy consumption in standby mode **         | el <sub>SB</sub>  | 0,003  | kW   |

\*) Average values, measured according to EN 15456:2008.

\*\*) Average value, measured according to IEC 62301:2011.

| Model name            | 00271023                                                           |                   |        |      |
|-----------------------|--------------------------------------------------------------------|-------------------|--------|------|
| Working condition     | Description                                                        | Parameter         | Result | Unit |
| Nominal heat output   | Auxiliary electrical energy consumption at nominal heat output *   | el <sub>max</sub> | 0,072  | kW   |
| Part load heat output | Auxiliary electrical energy consumption at part load heat output * | el <sub>min</sub> | 0,051  | kW   |
| Standby               | Auxiliary electrical energy consumption in standby mode **         | el <sub>SB</sub>  | 0,003  | kW   |

\*) Average values, measured according to EN 15456:2008.

\*\*) Average value, measured according to IEC 62301:2011.

| Room temperature control (Models: 00271022, 00271023)    |     |
|----------------------------------------------------------|-----|
| 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 |

### 3.1.2 Energy efficiency calculation

|                    |                 |
|--------------------|-----------------|
| <b>Models name</b> | <b>00271022</b> |
|--------------------|-----------------|

| Definition                                                                                                 | Parameter    | Unit | Result | Requirement |
|------------------------------------------------------------------------------------------------------------|--------------|------|--------|-------------|
| Appliance efficiency at nominal heat output                                                                | $\eta_{nom}$ | %    | 96     | -           |
| Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)              | F(2)         | %    | 7,0    | -           |
| Contributions of controls of indoor heating comfort                                                        | F(3)         | %    | 0,0    | -           |
| Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption | F(4)         | %    | 0,5    | -           |
| Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame      | F(5)         | %    | 0,0    | -           |
| Biomass label factor                                                                                       | BLF          | ---  | 1,45   | -           |
| Seasonal space heating energy efficiency                                                                   | $\eta_s$     | %    | 92     | $\geq 79$   |
| Energy efficiency index                                                                                    | EEI          | ---  | 135    | -           |
| Energy efficiency classification                                                                           | ---          | ---  | A++    | -           |

|                    |                 |
|--------------------|-----------------|
| <b>Models name</b> | <b>00271023</b> |
|--------------------|-----------------|

| Definition                                                                                                 | Parameter    | Unit | Result | Requirement |
|------------------------------------------------------------------------------------------------------------|--------------|------|--------|-------------|
| Appliance efficiency at nominal heat output                                                                | $\eta_{nom}$ | %    | 95     | -           |
| Contributions of controls of indoor heating comfort (mutually exclusive temperature controls)              | F(2)         | %    | 7,0    | -           |
| Contributions of controls of indoor heating comfort                                                        | F(3)         | %    | 0,0    | -           |
| Negative contribution to the seasonal space heating energy efficiency by auxiliary electricity consumption | F(4)         | %    | 0,5    | -           |
| Negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame      | F(5)         | %    | 0,0    | -           |
| Biomass label factor                                                                                       | BLF          | ---  | 1,45   | -           |
| Seasonal space heating energy efficiency                                                                   | $\eta_s$     | %    | 91     | $\geq 79$   |
| Energy efficiency index                                                                                    | EEI          | ---  | 134    | -           |
| Energy efficiency classification                                                                           | ---          | ---  | A++    | -           |

### 3.2 Resume of combustion test results

| Model name                                     | 00271022                                       |                   |         |         |                                         |
|------------------------------------------------|------------------------------------------------|-------------------|---------|---------|-----------------------------------------|
| Definition                                     | Parameter                                      | Unit              | Nominal | Partial | Requirement                             |
| Fuel consumption                               | $M_h$                                          | kg/h              | 4.19    | 1.41    | -                                       |
| Minimum refuelling intervals                   | -                                              | min               | 180     | 360     | 2 x 180 / 360                           |
| Flue gas mass flow                             | $\Phi_{f,g}$                                   | g/s               | 11.2    | 6.5     | -                                       |
| Flue gas temperature                           | $T_{fg}$                                       | °C                | 96.3    | 65.7    | -                                       |
| Flue gas outlet temperature                    | $T_{snom}$                                     | °C                | 115.6   | 78.8    | -                                       |
| Flue draught                                   | $p_{nom} / p_{part}$                           | Pa                | 8       | 5       | $\geq 12 / \geq 6$<br>or declared value |
| CO <sub>2</sub> concentration                  | CO <sub>2</sub>                                | Vol.-%            | 12.6    | 7.1     | -                                       |
| O <sub>2</sub> concentration                   | O <sub>2</sub>                                 | Vol.-%            | 7.7     | 13.5    | -                                       |
| CO concentration                               | -                                              | ppm               | 30      | 80      | -                                       |
| CO emission (13% O <sub>2</sub> )              | $CO_{nom} (13\% O_2) / CO_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 23      | 107     | $\leq 300 / -$                          |
| CO emission                                    | -                                              | mg/MJ             | 15      | 69      | -                                       |
| NO <sub>x</sub> concentration                  | -                                              | ppm               | 81      | 52      | -                                       |
| NO <sub>x</sub> emission (13% O <sub>2</sub> ) | $NO_{xnom} (13\% O_2) / NO_{xpart} (13\% O_2)$ | mg/m <sup>3</sup> | 100     | 114     | $\leq 200 / -$                          |
| NO <sub>x</sub> emission                       | -                                              | mg/MJ             | 65      | 74      | -                                       |
| OGC emission (13% O <sub>2</sub> )             | $OGC_{nom} (13\% O_2) / OGC_{part} (13\% O_2)$ | mg/m <sup>3</sup> | 2       | 3       | $\leq 60 / -$                           |
| OGC emission                                   | -                                              | mg/MJ             | 1       | 2       | -                                       |
| PM emission (13% O <sub>2</sub> )              | $PM_{nom} (13\% O_2) / PM_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 10      | 12      | $\leq 20 / -$                           |
| PM emission                                    | -                                              | mg/MJ             | 6       | 8       | -                                       |
| Heat input                                     | -                                              | kW                | 20.1    | 6.8     | -                                       |
| Heat output                                    | $P_{nom} / P_{part}$                           | kW                | 19.2    | 6.5     | -                                       |
| Water heat output                              | $P_{Wnom} / P_{Wpart}$                         | kW                | 17.4    | 5.4     | -                                       |
| Space heat output                              | $P_{SHnom} / P_{SHpart}$                       | kW                | 1.8     | 1.1     | -                                       |
| Efficiency                                     | $\eta_{nom} / \eta_{part}$                     | %                 | 95.6    | 95.9    | -                                       |

| Model name                                     |                                                | <b>00271023</b>   |         |         |                                         |
|------------------------------------------------|------------------------------------------------|-------------------|---------|---------|-----------------------------------------|
| Definition                                     | Parameter                                      | Unit              | Nominal | Partial | Requirement                             |
| Fuel consumption                               | $M_h$                                          | kg/h              | 5.01    | 1.75    | -                                       |
| Minimum refuelling intervals                   | -                                              | min               | 180     | 360     | 2 x 180 / 360                           |
| Flue gas mass flow                             | $\Phi_{f,g}$                                   | g/s               | 13.5    | 9.1     | -                                       |
| Flue gas temperature                           | $T_{fg}$                                       | °C                | 107.6   | 75.3    | -                                       |
| Flue gas outlet temperature                    | $T_{snom}$                                     | °C                | 129.1   | 90.4    | -                                       |
| Flue draught                                   | $p_{nom} / p_{part}$                           | Pa                | 8       | 5       | $\geq 12 / \geq 6$<br>or declared value |
| CO <sub>2</sub> concentration                  | CO <sub>2</sub>                                | Vol.-%            | 12.5    | 6.1     | -                                       |
| O <sub>2</sub> concentration                   | O <sub>2</sub>                                 | Vol.-%            | 7.8     | 14.5    | -                                       |
| CO concentration                               | -                                              | ppm               | 48      | 127     | -                                       |
| CO emission (13% O <sub>2</sub> )              | $CO_{nom} (13\% O_2) / CO_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 36      | 195     | $\leq 300 / -$                          |
| CO emission                                    | -                                              | mg/MJ             | 23      | 126     | -                                       |
| NO <sub>x</sub> concentration                  | -                                              | ppm               | 80      | 43      | -                                       |
| NO <sub>x</sub> emission (13% O <sub>2</sub> ) | $NO_{xnom} (13\% O_2) / NO_{xpart} (13\% O_2)$ | mg/m <sup>3</sup> | 99      | 109     | $\leq 200 / -$                          |
| NO <sub>x</sub> emission                       | -                                              | mg/MJ             | 64      | 71      | -                                       |
| OGC emission (13% O <sub>2</sub> )             | $OGC_{nom} (13\% O_2) / OGC_{part} (13\% O_2)$ | mg/m <sup>3</sup> | 1       | 5       | $\leq 60 / -$                           |
| OGC emission                                   | -                                              | mg/MJ             | 1       | 3       | -                                       |
| PM emission (13% O <sub>2</sub> )              | $PM_{nom} (13\% O_2) / PM_{part} (13\% O_2)$   | mg/m <sup>3</sup> | 10      | 10      | $\leq 20 / -$                           |
| PM emission                                    | -                                              | mg/MJ             | 6       | 6       | -                                       |
| Heat input                                     | -                                              | kW                | 24.0    | 8.4     | -                                       |
| Heat output                                    | $P_{nom} / P_{part}$                           | kW                | 22.8    | 7.9     | -                                       |
| Water heat output                              | $P_{Wnom} / P_{Wpart}$                         | kW                | 20.9    | 6.6     | -                                       |
| Space heat output                              | $P_{SHnom} / P_{SHpart}$                       | kW                | 1.9     | 1.3     | -                                       |
| Efficiency                                     | $\eta_{nom} / \eta_{part}$                     | %                 | 94.9    | 94.2    | -                                       |

## **4 Statement of the test results**

The appliances

**00271022, 00271023**

with trademarks:

**UNICAL, SCHUSTER, WIESBERG, ARIEL, ITALICAL**

of the company:

**UNICAL AG SPA**

conform for the operation with wood pellets with the requirements in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02, except for clauses 5.8, 5.8.4 and 8, which are not part of this assessment. The appliance conforms 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 are not the subject of this report. A possible NPD declaration by the manufacturer is also not included in this report.

Report data are based on historical data of the initial Type Testing report n. K 3589 2025 T1 dated 08.04.2025 and issued in accordance with DIN EN 16510-1:2023-02 and DIN EN 16510-2-6:2023-02.

## 5 Test documents

See test report K 3589 2025 T1.

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     | Type label               | -          |
| A 02     | Extension Declaration    | 09.07.2025 |
| A 03     | Declaration About Manual | 09.07.2025 |
| A 04     | Drawing                  |            |
| A 05     | Declaration manufacturer |            |



Come da allegato all'attestato inerente il report tecnico  
*How from annex to the declaration concerning Technical report*  
*Tel qu'attaché au certificat relatif au rapport technique*

n° K38192025Z1  
del 29/07/2025

e in conformità all'Annex G della Norma EN 16510-1:2022, l'azienda UNICAL AG S.p.A. dichiara che gli apparecchi:  
*and according to Annex G of the standard EN 16510-1:2022, the company UNICAL AG S.p.A. declare that the appliances:*  
*et conformément au Annex G de la norme EN 16510-1:2022, UNICAL AG S.p.A. déclare que les appareils:*

|                                       |          |
|---------------------------------------|----------|
| Modelli / Models / Modèles (ID MODEL) | 00271023 |
|---------------------------------------|----------|

sono rappresentativi della famiglia a cui appartengono i seguenti modelli:  
*are representative of the family to which belong the following models:*  
*ils sont représentatifs de la famille à laquelle appartiennent les modèles suivants:*

|                                             |          |                   |
|---------------------------------------------|----------|-------------------|
| Marchio commerciale<br>Trade mark<br>Marque | SCHUSTER |                   |
| MODELLI / Models / Modèles                  | 00271023 | IDRA 24 - 5★      |
|                                             | 00271023 | IDRA EASY 24 - 5★ |
|                                             |          |                   |

**Firmato a nome e per conto del fabbricante da Nicola Micheletti (Procurator)**

*Signé au nom et pour le compte du fabricant par Nicola Micheletti (Procurator)*

Luogo: Castel d'Ario (MN)  
*Place / Ville: Castel d'Ario (MN)*

Data 30/07/2025  
*Date 30/07/2025*

Firma  
*Sign.*

**Unical AG** S.p.A.  
SEDE: Via Roma, 123 - CASTEL D'ARIO (MN)  
C.F. / P.IVA: 01501350209  
DIVISIONE: Viale Europa, 3/5  
36053 Gambellara (VI)

Il sottoscritto, rappresentante il seguente costruttore  
*The undersigned, representative of the following manufacturer*

**Unical AG S.p.A.**  
**Via Roma, 123**  
**46033 - Castel d'Ario (MN) - Italy**

DICHIARA che il prodotto:  
*DECLARES that the product:*

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Descrizione<br><i>Description</i> | Stufa a pellet<br><i>Pellet stove</i> |
| Marchio<br><i>Trademark</i>       | <b>SCHUSTER</b>                       |
| Modelli<br><i>Models</i>          | <b>00271022 IDRA 20 - 5★</b>          |

La DoC viene rilasciata sotto la propria responsabilità e si riferisce al seguente prodotto:

- **2014/53/UE, Direttiva apparecchiature radio (RED)**
- **2011/65/UE, Direttiva sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (Direttiva RoHS)**
- **2015/863/UE Direttiva delegata recante modifica dell'allegato II della direttiva 2011/65/UE**
- **Direttiva 2009/125/CE, Ecodesign**
- **2015/1185, Regolamento per la progettazione ecocompatibile degli apparecchi per il riscaldamento d'ambiente locale a combustibile solido**

*The DoC is issued under our sole responsibility and belongs to the following product:*

- *2014/53/EU, Radio equipment Directive (RED)*
- *2011/65/EU, Restriction of the use of certain hazardous substances Directive (RoHS Directive)*
- *2015/863/EU, Delegated directive amending Annex II of directive 2011/65/EU*
- *2009/125/EC Directive, Ecodesign*
- *2015/1185, regulation to ecodesign requirements for solid fuel spece heaters*

L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

*The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:*

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| EN 55014-1:2017 + A11:2020                            | EN 50581:2012                            |
| EN 55014-2:2015                                       | EN 60335-1:2012+11:2014+A13:2017+A1:2019 |
| ETSI 300 328 V.2.1.1 [se applicabile – if applicable] | +A12:2019+A14:2019+A15:2021              |
| ETSI EN 303 446-1 [bozza - draft]                     | ETSI EN 301 489-1:2011                   |
| EN 61000-3-2:2019                                     | EN 60335-2-102:2016                      |
| EN 61000-3-3 :2013+A1 :2019                           | EN 62233:2008/AC:2008                    |
| EN 62311:2008                                         |                                          |

**Firmato a nome e per conto del fabbricante da Nicola Micheletti (Procurator)**

*Signed for and on behalf of the manufacturer by Nicola Micheletti (Procurator)*

Luogo: Castel d'Ario (MN)  
*Place: Castel d'Ario (MN)*

Data 30/07/2025  
*Date 30/07/2025*

Firma  
*Sign.*

**Unical** AG S.p.A.  
SEDE: Via Roma, 123 - CASTEL D'ARIO (MN)  
C.F. / P.I.V.A. 01501350209  
DIVISIONE: Viale Europa, 3/5  
36058 Gambellara (VI)

Il sottoscritto, rappresentante il seguente costruttore  
*Le soussigné, représentant du fabricant suivant*

**Unical AG S.p.A.**  
**Via Roma, 123**  
**46033 - Castel d'Ario (MN) - Italy**

DICHIARA che il prodotto:  
*DÉCLARE que le produit:*

Descrizione  
*Description*                      Stufa a pellet  
*Poêle à granulés*

Marchio  
*Marque*                              **SCHUSTER**

Modelli  
*Modèles*                              **00271022 IDRA 20 - 5★**

La DoC viene rilasciata sotto la propria responsabilità e si riferisce al seguente prodotto:

- **2014/53/UE, Direttiva apparecchiature radio (RED)**
- **2011/65/UE, Direttiva sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (Direttiva RoHS)**
- **2015/863/UE Direttiva delegata recante modifica dell'allegato II della direttiva 2011/65/UE**
- **Direttiva 2009/125/CE, Ecodesign**
- **2015/1185, Regolamento per la progettazione ecocompatibile degli apparecchi per il riscaldamento d'ambiente locale a combustibile solido**

*La déclaration de conformité (DoC) est établie sous notre seule responsabilité et concerne le produit suivant :*

- *2014/53/UE, Directive relative aux équipements hertziens (RED)*
- *2011/65/UE, Directive relative à la limitation de l'utilisation de certaines substances dangereuses (directive RoHS)*
- *2015/863/UE, Directive déléguée modifiant l'annexe II de la directive 2011/65/UE*
- *2009/125/CE, Directive sur l'Ecodesign*
- *2015/1185, règlement établissant des exigences d'écoconception pour les appareils de chauffage à combustibles solides*

L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

*L'objet de la déclaration décrite ci-dessus est conforme à la législation d'harmonisation de l'Union en la matière :*

EN 55014-1:2017 + A11:2020

EN 55014-2:2015

ETSI 300 328 V.2.1.1 [se applicabile – if applicable]

ETSI EN 303 446-1 [bozza - draft]

EN 61000-3-2:2019

EN 61000-3-3 :2013+A1 :2019

EN 62311:2008

EN 50581:2012

EN 60335-1:2012+11:2014+A13:2017+A1:2019

+A12:2019+A14:2019+A15:2021

ETSI EN 301 489-1:2011

EN 60335-2-102:2016

EN 62233:2008/AC:2008

**Firmato a nome e per conto del fabbricante da Nicola Micheletti (Procurator)**

*Signé au nom et pour le compte du fabricant par Nicola Micheletti (Procurator)*

Luogo: Castel d'Ario (MN)  
*Ville: Castel d'Ario (MN)*

Data 30/07/2025  
*Date 30/07/2025*

Firma  
*Sign.*

**Unical AG S.p.A.**  
SEDE / Via Roma, 123 - CASTEL D'ARIO (MN)  
C.F. / P.IVA 01501350209  
DIVISIONE / Viale Europa, 3/5  
36050 Gambellara (VI)

Il sottoscritto, rappresentante il seguente costruttore  
*The undersigned, representative of the following manufacturer*

**Unical AG S.p.A.**  
**Via Roma, 123**  
**46033 - Castel d'Ario (MN) - Italy**

DICHIARA che il prodotto:  
*DECLARES that the product:*

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Descrizione<br><i>Description</i> | Stufa a pellet<br><i>Pellet stove</i> |
| Marchio<br><i>Trademark</i>       | <b>SCHUSTER</b>                       |
| Modelli<br><i>Models</i>          | <b>00271023 IDRA 24 - 5★</b>          |

La DoC viene rilasciata sotto la propria responsabilità e si riferisce al seguente prodotto:

- **2014/53/UE, Direttiva apparecchiature radio (RED)**
- **2011/65/UE, Direttiva sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (Direttiva RoHS)**
- **2015/863/UE Direttiva delegata recante modifica dell'allegato II della direttiva 2011/65/UE**
- **Direttiva 2009/125/CE, Ecodesign**
- **2015/1185, Regolamento per la progettazione ecocompatibile degli apparecchi per il riscaldamento d'ambiente locale a combustibile solido**

*The DoC is issued under our sole responsibility and belongs to the following product:*

- *2014/53/EU, Radio equipment Directive (RED)*
- *2011/65/EU, Restriction of the use of certain hazardous substances Directive (RoHS Directive)*
- *2015/863/EU, Delegated directive amending Annex II of directive 2011/65/EU*
- *2009/125/EC Directive, Ecodesign*
- *2015/1185, regulation to ecodesign requirements for solid fuel spece heaters*

L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

*The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:*

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| EN 55014-1:2017 + A11:2020                            | EN 50581:2012                            |
| EN 55014-2:2015                                       | EN 60335-1:2012+11:2014+A13:2017+A1:2019 |
| ETSI 300 328 V.2.1.1 [se applicabile – if applicable] | +A12:2019+A14:2019+A15:2021              |
| ETSI EN 303 446-1 [bozza - draft]                     | ETSI EN 301 489-1:2011                   |
| EN 61000-3-2:2019                                     | EN 60335-2-102:2016                      |
| EN 61000-3-3 :2013+A1 :2019                           | EN 62233:2008/AC:2008                    |
| EN 62311:2008                                         |                                          |

**Firmato a nome e per conto del fabbricante da Nicola Micheletti (Procurator)**

*Signed for and on behalf of the manufacturer by Nicola Micheletti (Procurator)*

Luogo: Castel d'Ario (MN)  
*Place: Castel d'Ario (MN)*

Data 30/07/2025  
*Date 30/07/2025*

Firma  
*Sign.*

**Unical** AG S.p.A.  
SEDE: Via Roma, 123 - CASTEL D'ARIO (MN)  
C.F. / P.I.V.A. 01501350209  
DIVISIONE: Viale Europa, 3/5  
38058 Gambellara (VI)

Il sottoscritto, rappresentante il seguente costruttore  
*Le soussigné, représentant du fabricant suivant*

**Unical AG S.p.A.**  
**Via Roma, 123**  
**46033 - Castel d'Ario (MN) - Italy**

DICHIARA che il prodotto:  
*DÉCLARE que le produit:*

Descrizione  
*Description*

Stufa a pellet  
*Poêle à granulés*

Marchio  
*Marque*

**SCHUSTER**

Modelli  
*Modèles*

**00271023 IDRA 24 - 5★**

La DoC viene rilasciata sotto la propria responsabilità e si riferisce al seguente prodotto:

- **2014/53/UE, Direttiva apparecchiature radio (RED)**
- **2011/65/UE, Direttiva sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (Direttiva RoHS)**
- **2015/863/UE Direttiva delegata recante modifica dell'allegato II della direttiva 2011/65/UE**
- **Direttiva 2009/125/CE, Ecodesign**
- **2015/1185, Regolamento per la progettazione ecocompatibile degli apparecchi per il riscaldamento d'ambiente locale a combustibile solido**

*La déclaration de conformité (DoC) est établie sous notre seule responsabilité et concerne le produit suivant :*

- *2014/53/UE, Directive relative aux équipements hertziens (RED)*
- *2011/65/UE, Directive relative à la limitation de l'utilisation de certaines substances dangereuses (directive RoHS)*
- *2015/863/UE, Directive déléguée modifiant l'annexe II de la directive 2011/65/UE*
- *2009/125/CE, Directive sur l'Ecodesign*
- *2015/1185, règlement établissant des exigences d'écoconception pour les appareils de chauffage à combustibles solides*

L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

*L'objet de la déclaration décrite ci-dessus est conforme à la législation d'harmonisation de l'Union en la matière :*

EN 55014-1:2017 + A11:2020

EN 55014-2:2015

ETSI 300 328 V.2.1.1 [se applicabile – if applicable]

ETSI EN 303 446-1 [bozza - draft]

EN 61000-3-2:2019

EN 61000-3-3 :2013+A1 :2019

EN 62311:2008

EN 50581:2012

EN 60335-1:2012+11:2014+A13:2017+A1:2019

+A12:2019+A14:2019+A15:2021

ETSI EN 301 489-1:2011

EN 60335-2-102:2016

EN 62233:2008/AC:2008

**Firmato a nome e per conto del fabbricante da Nicola Micheletti (Procurator)**

*Signé au nom et pour le compte du fabricant par Nicola Micheletti (Procurator)*

Luogo: Castel d'Ario (MN)  
*Ville: Castel d'Ario (MN)*

Data 30/07/2025  
*Date 30/07/2025*

Firma  
*Sign.*

**Unical AG S.p.A.**  
SEDE / Via Roma, 123 - CASTEL D'ARIO (MN)  
C.F. / P.IVA 01501350209  
DIVISIONE / Viale Europa, 3/5  
36050 Gambellara (VI)

## DICHIARAZIONE DI PRESTAZIONE in base al regolamento (UE) Nr.305/2011

N° DoP: 103486\_S\_EN16510

|                                                    |                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------|
| Codice di identificazione unico del prodotto-tipo: | 00271022                                                               |
| Modelli:                                           | IDRA 20 - 5★                                                           |
| Uso previsto del prodotto:                         | Apparecchio di riscaldamento domestico a pellet di legno               |
| Fabbricante:                                       | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| Marchio:                                           | SCHUSTER                                                               |
| Sistema AVCP:                                      | System 3-4                                                             |
| Ente Notificato:                                   | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| N° Test Report:                                    | K38192025Z1                                                            |
| Specifica tecnica armonizzata:                     | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

## CARATTERISTICHE ESSENZIALI

| Prestazioni - Potenza e Rendimento                             | Potenza nominale |                    | Potenza a carico parziale |        |
|----------------------------------------------------------------|------------------|--------------------|---------------------------|--------|
| Potenza riscaldamento all'ambiente                             | 1,8              | KW                 | 1,1                       | KW     |
| Potenza riscaldamento all'acqua                                | 17,4             | KW                 | 5,4                       | KW     |
| Rendimento                                                     | 96               | %                  | 96                        | %      |
| Prestazioni - Emissioni                                        | Potenza nominale |                    | Potenza a carico parziale |        |
| Monossido di Carbonio (CO al 13% O <sub>2</sub> )              | 23               | mg/Nm <sup>3</sup> | 107                       | mg/Nm3 |
| Ossidi di Azoto (NO <sub>x</sub> al 13% O <sub>2</sub> )       | 100              | mg/Nm3             | 114                       | mg/Nm3 |
| Composti Organici Volatili (OGC al 13% O <sub>2</sub> )        | 2                | mg/Nm3             | 3                         | mg/Nm3 |
| Particolato (PM al 13% O <sub>2</sub> )                        | 10               | mg/Nm3             | 12                        | mg/Nm3 |
| Utilizzo sicuro e accessibile - dati di installazione a camino | Potenza nominale |                    | Potenza a carico parziale |        |
| Temperatura fumi in uscita                                     | 116              | °C                 | 79                        | °C     |
| Tiraggio minimo                                                | 8                | Pa                 | 5                         | Pa     |
| Portata massica dei fumi                                       | 11,2             | g/s                | 6,5                       | g/s    |
| Efficienza in riscaldamento d'ambiente                         |                  |                    |                           |        |
| Efficienza stagionale in riscaldamento d'ambiente              | 92               | %                  |                           |        |
| Indice di efficienza energetica                                | 135              | -                  |                           |        |
| Classe di efficienza energetica                                | A++              | -                  |                           |        |
| Assorbimento elettrico alla potenza nominale                   | 0,060            | KW                 |                           |        |
| Assorbimento elettrico alla potenza a carico parziale          | 0,045            | KW                 |                           |        |
| Assorbimento elettrico in modalità standby                     | 0,003            | KW                 |                           |        |
| Sicurezza antincendio - protezione dei materiali combustibili  |                  |                    |                           |        |
| Distanza minima - retro (dR)                                   | 100              | mm                 |                           |        |
| Distanza minima - lato (dS)                                    | 200              | mm                 |                           |        |
| Distanza minima - superiore (dC)                               | 750              | mm                 |                           |        |
| Distanza minima - frontale (dP)                                | 2000             | mm                 |                           |        |
| Distanza minima - irraggiamento frontale inferiore (dF)        | 1500             | mm                 |                           |        |
| Distanza minima - irraggiamento frontale laterale (dL)         | 1500             | mm                 |                           |        |
| Distanza minima - pavimento (dB)                               | 10               | mm                 |                           |        |
| Classe di temperatura camino                                   | T200             | -                  |                           |        |
| Spessore e Conducibilità termica materiale isolante            | -                |                    |                           |        |
| Resistenza meccanica e stabilità                               |                  |                    |                           |        |
| Capacità di sostenere un camino                                | 0                | Kg                 |                           |        |
| Utilizzo sostenibile delle risorse naturali                    |                  |                    |                           |        |
| Informazioni sulla sostenibilità ambientale                    | NPD              | -                  |                           |        |

Le prestazioni del prodotto sopra identificato sono conformi all'insieme delle prestazioni dichiarate.

La presente dichiarazione di prestazione è rilasciata in conformità al Regolamento (UE) Nr.305/2011, sotto la responsabilità del produttore sopra identificato.

**Unical AG S.p.A.**  
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C.F. / P.IVA 01501350209  
DIVISIONE: Viale Europa, 3/5  
36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## DECLARATION OF PERFORMANCE according to Regulation (EU) Nr.305/2011

N° DoP: 103486\_S\_EN16510

|                                          |                                                                        |
|------------------------------------------|------------------------------------------------------------------------|
| Unique product-type identification code: | 00271022                                                               |
| Models:                                  | IDRA 20 - 5★                                                           |
| Intended use of the product:             | Space heating in residential buildings with pellet wood                |
| Manufacturer:                            | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| Trade mark:                              | SCHUSTER                                                               |
| AVCP System:                             | System 3-4                                                             |
| Notified body:                           | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| Test report number:                      | K38192025Z1                                                            |
| Harmonised technical specification:      | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

## ESSENTIAL CHARACTERISTICS

| Performance - Power and efficiency                                 | Nominal heat output |                    | Partial load heat output |        |
|--------------------------------------------------------------------|---------------------|--------------------|--------------------------|--------|
| Heating power to the environment                                   | 1,8                 | KW                 | 1,1                      | KW     |
| Heating power to the water                                         | 17,4                | KW                 | 5,4                      | KW     |
| Efficiency                                                         | 96                  | %                  | 96                       | %      |
| Performance - Emissions                                            | Nominal heat output |                    | Partial load heat output |        |
| Carbon monoxide (CO at 13% O <sub>2</sub> )                        | 23                  | mg/Nm <sup>3</sup> | 107                      | mg/Nm3 |
| Nitrogen oxides (NO <sub>x</sub> at 13% O <sub>2</sub> )           | 100                 | mg/Nm3             | 114                      | mg/Nm3 |
| Emission of organic gaseous compounds (OGC at 13% O <sub>2</sub> ) | 2                   | mg/Nm3             | 3                        | mg/Nm3 |
| Particulate matter emissions (PM at 13% O <sub>2</sub> )           | 10                  | mg/Nm3             | 12                       | mg/Nm3 |
| Safe and accessible use - chimney installation data                | Nominal heat output |                    | Partial load heat output |        |
| Flue gas outlet temperature                                        | 116                 | °C                 | 79                       | °C     |
| Minimum flue draught                                               | 8                   | Pa                 | 5                        | Pa     |
| Flue gas mass flow                                                 | 11,2                | g/s                | 6,5                      | g/s    |
| Space heating efficiency                                           |                     |                    |                          |        |
| Seasonal space heating energy efficiency                           | 92                  | %                  |                          |        |
| Energy efficiency index                                            | 135                 | -                  |                          |        |
| Energy efficiency class                                            | A++                 | -                  |                          |        |
| Electrical consumption at nominal heat output                      | 0,060               | KW                 |                          |        |
| Electrical consumption at partial load heat output                 | 0,045               | KW                 |                          |        |
| Electrical consumption in standby mode                             | 0,003               | KW                 |                          |        |
| Fire safety - protection of combustible materials                  |                     |                    |                          |        |
| Minimum distance - rear (dR)                                       | 100                 | mm                 |                          |        |
| Minimum distance - side (dS)                                       | 200                 | mm                 |                          |        |
| Minimum distance - ceiling (dC)                                    | 750                 | mm                 |                          |        |
| Minimum distance - frontal (dP)                                    | 2000                | mm                 |                          |        |
| Minimum distance - front floor (dF)                                | 1500                | mm                 |                          |        |
| Minimum distance - lateral radiation (dL)                          | 1500                | mm                 |                          |        |
| Minimum distance - bottom (dB)                                     | 10                  | mm                 |                          |        |
| Flue temperature class                                             | T200                | -                  |                          |        |
| Thickness and thermal conductivity of insulating material (λd)     | -                   |                    |                          |        |
| Mechanical resistance and stability                                |                     |                    |                          |        |
| Capacity to support a chimney                                      | 0                   | Kg                 |                          |        |
| Sustainable use of natural resources                               |                     |                    |                          |        |
| Environmental sustainability information                           | NPD                 | -                  |                          |        |

The performance of the product identified above is in conformity with the set of declared performances.

This declaration of performance is issued in accordance with Regulation (EU) Nr.305/2011 under the responsibility of the manufacturer identified above.

**Unical AG S.p.A.**  
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C.F. / P.IVA 01501350209  
DIVISIONE: Viale Europa, 3/5  
36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## DÉCLARATION DE PERFORMANCE conformément au règlement (UE) Nr.305/2011 N° DoP: 103486\_S\_EN16510

|                                               |                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------|
| Code d'identification unique du produit-type: | 00271022                                                                       |
| Modèles:                                      | IDRA 20 - 5★                                                                   |
| Usage prévu du produit:                       | Chauffage des locaux dans les bâtiments résidentiels avec des granulés de bois |
| Fabricant:                                    | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy         |
| Marque commerciale:                           | SCHUSTER                                                                       |
| Système AVCP:                                 | System 3-4                                                                     |
| Organisme Notifié:                            | NB 2456 - TÜV Rheinland Energy GmbH                                            |
| Numéro du rapport d'essai:                    | K38192025Z1                                                                    |
| Spécification technique harmonisée:           | EN 16510-1:2022 / EN 16510-2-6:2022                                            |

## CARACTÉRISTIQUES ESSENTIELLES

| Performances - Puissance et rendement                                       | Puissance nominale |                    | Puissance à charge partielle |                    |
|-----------------------------------------------------------------------------|--------------------|--------------------|------------------------------|--------------------|
| Puissance de chauffage de l'environnement                                   | 1,8                | KW                 | 1,1                          | KW                 |
| Puissance de chauffage de l'eau                                             | 17,4               | KW                 | 5,4                          | KW                 |
| Rendement                                                                   | 96                 | %                  | 96                           | %                  |
| Performances - Émissions                                                    | Puissance nominale |                    | Puissance à charge partielle |                    |
| Monoxyde de carbone (CO à 13% O <sub>2</sub> )                              | 23                 | mg/Nm <sup>3</sup> | 107                          | mg/Nm <sup>3</sup> |
| Oxydes d'azote (NO <sub>x</sub> à 13% O <sub>2</sub> )                      | 100                | mg/Nm <sup>3</sup> | 114                          | mg/Nm <sup>3</sup> |
| Émission de composés organiques volatils (OGC à 13% O <sub>2</sub> )        | 2                  | mg/Nm <sup>3</sup> | 3                            | mg/Nm <sup>3</sup> |
| Émissions de particules (PM à 13% O <sub>2</sub> )                          | 10                 | mg/Nm <sup>3</sup> | 12                           | mg/Nm <sup>3</sup> |
| Utilisation sûre et accessible - données d'installation du conduit de fumée | Puissance nominale |                    | Puissance à charge partielle |                    |
| Température des gaz de combustion à la sortie                               | 116                | °C                 | 79                           | °C                 |
| Tirage minimum                                                              | 8                  | Pa                 | 5                            | Pa                 |
| Masse des gaz de combustion                                                 | 11,2               | g/s                | 6,5                          | g/s                |
| Efficacité en chauffage de l'environnement                                  |                    |                    |                              |                    |
| Efficacité énergétique saisonnière en chauffage de l'environnement          | 92                 | %                  |                              |                    |
| Indice d'efficacité énergétique                                             | 135                | -                  |                              |                    |
| Classe d'efficacité énergétique                                             | A++                | -                  |                              |                    |
| Consommation électrique à la puissance nominale                             | 0,060              | KW                 |                              |                    |
| Consommation électrique à charge partielle                                  | 0,045              | KW                 |                              |                    |
| Consommation électrique en veille                                           | 0,003              | KW                 |                              |                    |
| Sécurité incendie - protection contre les matériaux combustibles            |                    |                    |                              |                    |
| Distance minimale - arrière (dR)                                            | 100                | mm                 |                              |                    |
| Distance minimale - côté (dS)                                               | 200                | mm                 |                              |                    |
| Distance minimale - plafond (dC)                                            | 750                | mm                 |                              |                    |
| Distance minimale - frontal (dP)                                            | 2000               | mm                 |                              |                    |
| Distance minimale - sol avant (dF)                                          | 1500               | mm                 |                              |                    |
| Distance minimale - rayonnement latéral (dL)                                | 1500               | mm                 |                              |                    |
| Distance minimale - dessous (dB)                                            | 10                 | mm                 |                              |                    |
| Classe de température du conduit de fumée                                   | T200               | -                  |                              |                    |
| Épaisseur et conductivité thermique du matériau isolant protecteur (λd)     | -                  |                    |                              |                    |
| Stabilité et résistance mécanique                                           |                    |                    |                              |                    |
| Capacité à supporter une cheminée                                           | 0                  | Kg                 |                              |                    |
| Utilisation durable des ressources naturelles                               |                    |                    |                              |                    |
| Informations sur la durabilité environnementale                             | NPD                | -                  |                              |                    |

Les performances du produit ci-dessus identifié sont conformes à l'ensemble des performances déclarées.

La présente déclaration de performance est délivrée conformément au règlement (UE) Nr.305/2011, sous la responsabilité du fabricant ci-dessus identifié.

**Unical AG S.p.A.**  
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DIVISIONE: Viale Europa, 3/5  
36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## LEISTUNGSERKLÄRUNG gemäß der Verordnung (EU) Nr.305/2011

N° DoP: 103486\_S\_EN16510

|                                                        |                                                                        |
|--------------------------------------------------------|------------------------------------------------------------------------|
| <b>Einzigartige Produktkennnummer des Produkttyps:</b> | 00271022                                                               |
| <b>Modelle:</b>                                        | <b>IDRA 20 - 5★</b>                                                    |
| <b>Geplanter Einsatz des Produkts:</b>                 | Raumheizung in Wohngebäuden mit Holzpellets                            |
| <b>Hersteller:</b>                                     | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| <b>Markenname:</b>                                     | SCHUSTER                                                               |
| <b>AVCP-System:</b>                                    | System 3-4                                                             |
| <b>Benannte Stelle:</b>                                | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| <b>Prüfberichtsnummer:</b>                             | K38192025Z1                                                            |
| <b>Harmonisierte technische Spezifikation:</b>         | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

### WESENTLICHE EIGENSCHAFTEN

| Leistung - Leistung und Wirkungsgrad                                           | Nennleistung |                    | Leistung bei Teillast |        |
|--------------------------------------------------------------------------------|--------------|--------------------|-----------------------|--------|
| Heizleistung für den Raum                                                      | 1,8          | KW                 | 1,1                   | KW     |
| Heizleistung für Wasser                                                        | 17,4         | KW                 | 5,4                   | KW     |
| Wirkungsgrad                                                                   | 96           | %                  | 96                    | %      |
| Leistung - Emissionen                                                          | Nennleistung |                    | Leistung bei Teillast |        |
| Kohlenmonoxid (CO bei 13% O <sub>2</sub> )                                     | 23           | mg/Nm <sup>3</sup> | 107                   | mg/Nm3 |
| Stickoxide (NO <sub>x</sub> bei 13% O <sub>2</sub> )                           | 100          | mg/Nm3             | 114                   | mg/Nm3 |
| Emission von flüchtigen organischen Verbindungen (OGC bei 13% O <sub>2</sub> ) | 2            | mg/Nm3             | 3                     | mg/Nm3 |
| Feinstaubemissionen (PM bei 13% O <sub>2</sub> )                               | 10           | mg/Nm3             | 12                    | mg/Nm3 |
| Sichere und zugängliche Nutzung - Daten zur Schornsteininstallation            | Nennleistung |                    | Leistung bei Teillast |        |
| Abgastemperatur am Ausgang                                                     | 116          | °C                 | 79                    | °C     |
| Mindestzug                                                                     | 8            | Pa                 | 5                     | Pa     |
| Abgasmasse                                                                     | 11,2         | g/s                | 6,5                   | g/s    |
| Wirkungsgrad bei Raumheizung                                                   |              |                    |                       |        |
| Jahreszeitlicher Energieeffizienz-Wirkungsgrad bei Raumheizung                 | 92           | %                  |                       |        |
| Energieeffizienzindex                                                          | 135          | -                  |                       |        |
| Energieeffizienzklasse                                                         | A++          | -                  |                       |        |
| Elektrische Leistung bei Nennleistung                                          | 0,060        | KW                 |                       |        |
| Elektrische Leistung bei Teillast                                              | 0,045        | KW                 |                       |        |
| Elektrische Leistung im Standby                                                | 0,003        | KW                 |                       |        |
| Brandschutz - Schutz vor brennbaren Materialien                                |              |                    |                       |        |
| Mindestabstand - Rückseite (dR)                                                | 100          | mm                 |                       |        |
| Mindestabstand - Seite (dS)                                                    | 200          | mm                 |                       |        |
| Mindestabstand - Decke (dC)                                                    | 750          | mm                 |                       |        |
| Mindestabstand - vordere Strahlung (dP)                                        | 2000         | mm                 |                       |        |
| Mindestabstand - vorderer Boden (dF)                                           | 1500         | mm                 |                       |        |
| Mindestabstand - seitliche Strahlung (dL)                                      | 1500         | mm                 |                       |        |
| Mindestabstand - unten (dB)                                                    | 10           | mm                 |                       |        |
| Temperaturklasse des Schornsteins                                              | T200         | -                  |                       |        |
| Dicke und Wärmeleitfähigkeit des schützenden Dämmstoffs (λd)                   | -            |                    |                       |        |
| Stabilität und mechanische Festigkeit                                          |              |                    |                       |        |
| Fähigkeit, einen Kamin zu tragen                                               | 0            | Kg                 |                       |        |
| Nachhaltige Ressourcennutzung                                                  |              |                    |                       |        |
| Informationen zur ökologischen Nachhaltigkeit                                  | NPD          | -                  |                       |        |

Die Leistungen des oben genannten Produkts entsprechen der Gesamtheit der angegebenen Leistungen.

Diese Leistungserklärung wird gemäß der Verordnung (EU) Nr.305/2011 unter der Verantwortung des oben genannten Herstellers abgegeben.

**Unical AG S.p.A.**  
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DIVISIONE: Viale Europa, 3/5  
36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## DECLARACIÓN DE DESEMPEÑO según el Reglamento (UE) Nr.305/2011

N° DoP: 103486\_S\_EN16510

|                                                   |                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------|
| Código de identificación único del producto-tipo: | 00271022                                                                |
| Modelos:                                          | IDRA 20 - 5★                                                            |
| Uso previsto del producto:                        | Aparato de calefacción en edificios residenciales con pellets de madera |
| Fabricante:                                       | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy  |
| Marca comercial:                                  | SCHUSTER                                                                |
| Sistema AVCP:                                     | System 3-4                                                              |
| Entidad Notificada:                               | NB 2456 - TÜV Rheinland Energy GmbH                                     |
| Número del informe de prueba:                     | K38192025Z1                                                             |
| Especificación técnica armonizada:                | EN 16510-1:2022 / EN 16510-2-6:2022                                     |

## CARACTERÍSTICAS ESENCIALES

| Rendimiento - Potencia y eficiencia                                    |  | Potencia nominal |                    | Potencia a carga parcial |        |
|------------------------------------------------------------------------|--|------------------|--------------------|--------------------------|--------|
| Potencia de calefacción al ambiente                                    |  | 1,8              | KW                 | 1,1                      | KW     |
| Potencia de calefacción al agua                                        |  | 17,4             | KW                 | 5,4                      | KW     |
| Eficiencia                                                             |  | 96               | %                  | 96                       | %      |
| Rendimiento - Emisiones                                                |  | Potencia nominal |                    | Potencia a carga parcial |        |
| Monóxido de carbono (CO al 13% O <sub>2</sub> )                        |  | 23               | mg/Nm <sup>3</sup> | 107                      | mg/Nm3 |
| Óxidos de nitrógeno (NO <sub>x</sub> al 13% O <sub>2</sub> )           |  | 100              | mg/Nm3             | 114                      | mg/Nm3 |
| Emisión de compuestos orgánicos volátiles (OGC al 13% O <sub>2</sub> ) |  | 2                | mg/Nm3             | 3                        | mg/Nm3 |
| Emisiones de partículas (PM al 13% O <sub>2</sub> )                    |  | 10               | mg/Nm3             | 12                       | mg/Nm3 |
| Uso seguro y accesible - datos de instalación de chimenea              |  | Potencia nominal |                    | Potencia a carga parcial |        |
| Temperatura de los gases de combustión en la salida                    |  | 116              | °C                 | 79                       | °C     |
| Tiraje mínimo                                                          |  | 8                | Pa                 | 5                        | Pa     |
| Masa de los gases de combustión                                        |  | 11,2             | g/s                | 6,5                      | g/s    |
| Eficiencia en calefacción ambiental                                    |  |                  |                    |                          |        |
| Eficiencia energética estacional en calefacción ambiental              |  | 92               | %                  |                          |        |
| Índice de eficiencia energética                                        |  | 135              | -                  |                          |        |
| Clase de eficiencia energética                                         |  | A++              | -                  |                          |        |
| Consumo eléctrico a potencia nominal                                   |  | 0,060            | KW                 |                          |        |
| Consumo eléctrico a carga parcial                                      |  | 0,045            | KW                 |                          |        |
| Consumo eléctrico en espera                                            |  | 0,003            | KW                 |                          |        |
| Seguridad contra incendios - protección contra materiales combustibles |  |                  |                    |                          |        |
| Distancia mínima - trasera (dR)                                        |  | 100              | mm                 |                          |        |
| Distancia mínima - lateral (dS)                                        |  | 200              | mm                 |                          |        |
| Distancia mínima - techo (dC)                                          |  | 750              | mm                 |                          |        |
| Distancia mínima - frontal (dP)                                        |  | 2000             | mm                 |                          |        |
| Distancia mínima - suelo frontal (dF)                                  |  | 1500             | mm                 |                          |        |
| Distancia mínima - radiación lateral (dL)                              |  | 1500             | mm                 |                          |        |
| Distancia mínima - debajo (dB)                                         |  | 10               | mm                 |                          |        |
| Clase de temperatura de la chimenea                                    |  | T200             | -                  |                          |        |
| Grosor y conductividad térmica del material aislante protector (λd)    |  | -                |                    |                          |        |
| Estabilidad y resistencia mecánica                                     |  |                  |                    |                          |        |
| Capacidad para sostener una chimenea                                   |  | 0                | Kg                 |                          |        |
| Uso sostenible de recursos naturales                                   |  |                  |                    |                          |        |
| Información sobre sostenibilidad ambiental                             |  | NPD              | -                  |                          |        |

El rendimiento del producto identificado anteriormente cumple con el conjunto de rendimientos declarados.

Esta declaración de desempeño se emite de acuerdo con el Reglamento (UE) Nr.305/2011, bajo la responsabilidad del fabricante anteriormente identificado.

Castel d'Ario (MN), 30/07/2025

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Nicola Micheletti (Procurator)

## DECLARAÇÃO DE DESEMPENHO de acordo com o Regulamento (UE) Nr.305/2011 N° DoP: 103486\_S\_EN16510

|                                                |                                                                        |
|------------------------------------------------|------------------------------------------------------------------------|
| Código de identificação único do produto-tipo: | 00271022                                                               |
| Modelos:                                       | IDRA 20 - 5★                                                           |
| Uso previsto do produto:                       | Aquecimento de ambientes residenciais com pellets de madeira           |
| Fabricante:                                    | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| Marca comercial:                               | SCHUSTER                                                               |
| Sistema AVCP:                                  | System 3-4                                                             |
| Entidade Notificada:                           | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| Número do relatório de ensaio:                 | K38192025Z1                                                            |
| Especificação técnica harmonizada:             | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

## CARACTERÍSTICAS ESSENCIAIS

| Desempenho - Potência e eficiência                                   | Potência nominal |                    | Potência a carga parcial |        |
|----------------------------------------------------------------------|------------------|--------------------|--------------------------|--------|
| Potência de aquecimento ao ambiente                                  | 1,8              | KW                 | 1,1                      | KW     |
| Potência de aquecimento à água                                       | 17,4             | KW                 | 5,4                      | KW     |
| Eficiência                                                           | 96               | %                  | 96                       | %      |
| Desempenho - Emissões                                                | Potência nominal |                    | Potência a carga parcial |        |
| Monóxido de carbono (CO al 13% O <sub>2</sub> )                      | 23               | mg/Nm <sup>3</sup> | 107                      | mg/Nm3 |
| Óxidos de azoto (NO <sub>x</sub> al 13% O <sub>2</sub> )             | 100              | mg/Nm3             | 114                      | mg/Nm3 |
| Emissão de compostos orgânicos voláteis (OGC al 13% O <sub>2</sub> ) | 2                | mg/Nm3             | 3                        | mg/Nm3 |
| Emissões de partículas (PM al 13% O <sub>2</sub> )                   | 10               | mg/Nm3             | 12                       | mg/Nm3 |
| Uso seguro e acessível - dados de instalação de chaminé              | Potência nominal |                    | Potência a carga parcial |        |
| Temperatura dos gases de exaustão na saída                           | 116              | °C                 | 79                       | °C     |
| Tiragem mínima                                                       | 8                | Pa                 | 5                        | Pa     |
| Massa de gases de exaustão                                           | 11,2             | g/s                | 6,5                      | g/s    |
| Eficiência em aquecimento de ambiente                                |                  |                    |                          |        |
| Eficiência energética sazonal em aquecimento de ambiente             | 92               | %                  |                          |        |
| Índice de eficiência energética                                      | 135              | -                  |                          |        |
| Classe de eficiência energética                                      | A++              | -                  |                          |        |
| Consumo elétrico a potência nominal                                  | 0,060            | KW                 |                          |        |
| Consumo elétrico a carga parcial                                     | 0,045            | KW                 |                          |        |
| Consumo elétrico em stand-by                                         | 0,003            | KW                 |                          |        |
| Segurança contra incêndios - proteção contra materiais combustíveis  |                  |                    |                          |        |
| Distância mínima - traseira (dR)                                     | 100              | mm                 |                          |        |
| Distância mínima - lado (dS)                                         | 200              | mm                 |                          |        |
| Distância mínima - teto (dC)                                         | 750              | mm                 |                          |        |
| Distância mínima - radiação frontal (dP)                             | 2000             | mm                 |                          |        |
| Distância mínima - chão frontal (dF)                                 | 1500             | mm                 |                          |        |
| Distância mínima - radiação lateral (dL)                             | 1500             | mm                 |                          |        |
| Distância mínima - abaixo (dB)                                       | 10               | mm                 |                          |        |
| Classe de temperatura da chaminé                                     | T200             | -                  |                          |        |
| Espessura e condutividade térmica do material isolante protetor (λd) | -                |                    |                          |        |
| Estabilidade e resistência mecânica                                  |                  |                    |                          |        |
| Capacidade de suportar uma chaminé                                   | 0                | Kg                 |                          |        |
| Uso sustentável dos recursos naturais                                |                  |                    |                          |        |
| Informações sobre sustentabilidade ambiental                         | NPD              | -                  |                          |        |

O desempenho do produto identificado acima está em conformidade com o conjunto de desempenhos declarados.

Esta declaração de desempenho é emitida de acordo com o Regulamento (UE) Nr.305/2011, sob a responsabilidade do fabricante identificado acima.

Castel d'Ario (MN), 30/07/2025

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Nicola Micheletti (Procurator)

## DICHIARAZIONE DI PRESTAZIONE in base al regolamento (UE) Nr.305/2011

N° DoP: 103489\_S\_EN16510

|                                                    |                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------|
| Codice di identificazione unico del prodotto-tipo: | 00271023                                                               |
| Modelli:                                           | IDRA 24 - 5★                                                           |
| Uso previsto del prodotto:                         | Apparecchio di riscaldamento domestico a pellet di legno               |
| Fabbricante:                                       | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| Marchio:                                           | SCHUSTER                                                               |
| Sistema AVCP:                                      | System 3-4                                                             |
| Ente Notificato:                                   | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| N° Test Report:                                    | K38192025Z1                                                            |
| Specifica tecnica armonizzata:                     | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

## CARATTERISTICHE ESSENZIALI

| Prestazioni - Potenza e Rendimento                             | Potenza nominale |                    | Potenza a carico parziale |        |
|----------------------------------------------------------------|------------------|--------------------|---------------------------|--------|
| Potenza riscaldamento all'ambiente                             | 1,9              | KW                 | 1,3                       | KW     |
| Potenza riscaldamento all'acqua                                | 20,9             | KW                 | 6,6                       | KW     |
| Rendimento                                                     | 95               | %                  | 94                        | %      |
| Prestazioni - Emissioni                                        | Potenza nominale |                    | Potenza a carico parziale |        |
| Monossido di Carbonio (CO al 13% O <sub>2</sub> )              | 36               | mg/Nm <sup>3</sup> | 195                       | mg/Nm3 |
| Ossidi di Azoto (NO <sub>x</sub> al 13% O <sub>2</sub> )       | 99               | mg/Nm3             | 109                       | mg/Nm3 |
| Composti Organici Volatili (OGC al 13% O <sub>2</sub> )        | 1                | mg/Nm3             | 5                         | mg/Nm3 |
| Particolato (PM al 13% O <sub>2</sub> )                        | 10               | mg/Nm3             | 10                        | mg/Nm3 |
| Utilizzo sicuro e accessibile - dati di installazione a camino | Potenza nominale |                    | Potenza a carico parziale |        |
| Temperatura fumi in uscita                                     | 129              | °C                 | 90                        | °C     |
| Tiraggio minimo                                                | 8                | Pa                 | 5                         | Pa     |
| Portata massica dei fumi                                       | 13,5             | g/s                | 9,1                       | g/s    |
| Efficienza in riscaldamento d'ambiente                         |                  |                    |                           |        |
| Efficienza stagionale in riscaldamento d'ambiente              | 91               | %                  |                           |        |
| Indice di efficienza energetica                                | 134              | -                  |                           |        |
| Classe di efficienza energetica                                | A++              | -                  |                           |        |
| Assorbimento elettrico alla potenza nominale                   | 0,072            | KW                 |                           |        |
| Assorbimento elettrico alla potenza a carico parziale          | 0,051            | KW                 |                           |        |
| Assorbimento elettrico in modalità standby                     | 0,003            | KW                 |                           |        |
| Sicurezza antincendio - protezione dei materiali combustibili  |                  |                    |                           |        |
| Distanza minima - retro (dR)                                   | 100              | mm                 |                           |        |
| Distanza minima - lato (dS)                                    | 200              | mm                 |                           |        |
| Distanza minima - superiore (dC)                               | 750              | mm                 |                           |        |
| Distanza minima - frontale (dP)                                | 2000             | mm                 |                           |        |
| Distanza minima - irraggiamento frontale inferiore (dF)        | 1500             | mm                 |                           |        |
| Distanza minima - irraggiamento frontale laterale (dL)         | 1500             | mm                 |                           |        |
| Distanza minima - pavimento (dB)                               | 10               | mm                 |                           |        |
| Classe di temperatura camino                                   | T200             | -                  |                           |        |
| Spessore e Conducibilità termica materiale isolante            | -                |                    |                           |        |
| Resistenza meccanica e stabilità                               |                  |                    |                           |        |
| Capacità di sostenere un camino                                | 0                | Kg                 |                           |        |
| Utilizzo sostenibile delle risorse naturali                    |                  |                    |                           |        |
| Informazioni sulla sostenibilità ambientale                    | NPD              | -                  |                           |        |

Le prestazioni del prodotto sopra identificato sono conformi all'insieme delle prestazioni dichiarate.

La presente dichiarazione di prestazione è rilasciata in conformità al Regolamento (UE) Nr.305/2011, sotto la responsabilità del produttore sopra identificato.

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36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

**DECLARATION OF PERFORMANCE according to Regulation (EU) Nr.305/2011**

N° DoP: 103489\_S\_EN16510

|                                                 |                                                                        |
|-------------------------------------------------|------------------------------------------------------------------------|
| <b>Unique product-type identification code:</b> | 00271023                                                               |
| <b>Models:</b>                                  | <b>IDRA 24 - 5★</b>                                                    |
| <b>Intended use of the product:</b>             | Space heating in residential buildings with pellet wood                |
| <b>Manufacturer:</b>                            | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| <b>Trade mark:</b>                              | SCHUSTER                                                               |
| <b>AVCP System:</b>                             | System 3-4                                                             |
| <b>Notified body:</b>                           | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| <b>Test report number:</b>                      | K38192025Z1                                                            |
| <b>Harmonised technical specification:</b>      | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

## ESSENTIAL CHARACTERISTICS

| Performance - Power and efficiency                                 | Nominal heat output |                    | Partial load heat output |        |
|--------------------------------------------------------------------|---------------------|--------------------|--------------------------|--------|
| Heating power to the environment                                   | 1,9                 | KW                 | 1,3                      | KW     |
| Heating power to the water                                         | 20,9                | KW                 | 6,6                      | KW     |
| Efficiency                                                         | 95                  | %                  | 94                       | %      |
| Performance - Emissions                                            | Nominal heat output |                    | Partial load heat output |        |
| Carbon monoxide (CO at 13% O <sub>2</sub> )                        | 36                  | mg/Nm <sup>3</sup> | 195                      | mg/Nm3 |
| Nitrogen oxides (NO <sub>x</sub> at 13% O <sub>2</sub> )           | 99                  | mg/Nm3             | 109                      | mg/Nm3 |
| Emission of organic gaseous compounds (OGC at 13% O <sub>2</sub> ) | 1                   | mg/Nm3             | 5                        | mg/Nm3 |
| Particulate matter emissions (PM at 13% O <sub>2</sub> )           | 10                  | mg/Nm3             | 10                       | mg/Nm3 |
| Safe and accessible use - chimney installation data                | Nominal heat output |                    | Partial load heat output |        |
| Flue gas outlet temperature                                        | 129                 | °C                 | 90                       | °C     |
| Minimum flue draught                                               | 8                   | Pa                 | 5                        | Pa     |
| Flue gas mass flow                                                 | 13,5                | g/s                | 9,1                      | g/s    |
| Space heating efficiency                                           |                     |                    |                          |        |
| Seasonal space heating energy efficiency                           | 91                  | %                  |                          |        |
| Energy efficiency index                                            | 134                 | -                  |                          |        |
| Energy efficiency class                                            | A++                 | -                  |                          |        |
| Electrical consumption at nominal heat output                      | 0,072               | KW                 |                          |        |
| Electrical consumption at partial load heat output                 | 0,051               | KW                 |                          |        |
| Electrical consumption in standby mode                             | 0,003               | KW                 |                          |        |
| Fire safety - protection of combustible materials                  |                     |                    |                          |        |
| Minimum distance - rear (dR)                                       | 100                 | mm                 |                          |        |
| Minimum distance - side (dS)                                       | 200                 | mm                 |                          |        |
| Minimum distance - ceiling (dC)                                    | 750                 | mm                 |                          |        |
| Minimum distance - frontal (dP)                                    | 2000                | mm                 |                          |        |
| Minimum distance - front floor (dF)                                | 1500                | mm                 |                          |        |
| Minimum distance - lateral radiation (dL)                          | 1500                | mm                 |                          |        |
| Minimum distance - bottom (dB)                                     | 10                  | mm                 |                          |        |
| Flue temperature class                                             | T200                | -                  |                          |        |
| Thickness and thermal conductivity of insulating material (λd)     | -                   |                    |                          |        |
| Mechanical resistance and stability                                |                     |                    |                          |        |
| Capacity to support a chimney                                      | 0                   | Kg                 |                          |        |
| Sustainable use of natural resources                               |                     |                    |                          |        |
| Environmental sustainability information                           | NPD                 | -                  |                          |        |

The performance of the product identified above is in conformity with the set of declared performances.

This declaration of performance is issued in accordance with Regulation (EU) Nr.305/2011 under the responsibility of the manufacturer identified above.

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 36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## DÉCLARATION DE PERFORMANCE conformément au règlement (UE) Nr.305/2011 N° DoP: 103489\_S\_EN16510

|                                               |                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------|
| Code d'identification unique du produit-type: | 00271023                                                                       |
| Modèles:                                      | IDRA 24 - 5★                                                                   |
| Usage prévu du produit:                       | Chauffage des locaux dans les bâtiments résidentiels avec des granulés de bois |
| Fabricant:                                    | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy         |
| Marque commerciale:                           | SCHUSTER                                                                       |
| Système AVCP:                                 | System 3-4                                                                     |
| Organisme Notifié:                            | NB 2456 - TÜV Rheinland Energy GmbH                                            |
| Numéro du rapport d'essai:                    | K38192025Z1                                                                    |
| Spécification technique harmonisée:           | EN 16510-1:2022 / EN 16510-2-6:2022                                            |

## CARACTÉRISTIQUES ESSENTIELLES

| Performances - Puissance et rendement                                       | Puissance nominale |                    | Puissance à charge partielle |                    |
|-----------------------------------------------------------------------------|--------------------|--------------------|------------------------------|--------------------|
| Puissance de chauffage de l'environnement                                   | 1,9                | KW                 | 1,3                          | KW                 |
| Puissance de chauffage de l'eau                                             | 20,9               | KW                 | 6,6                          | KW                 |
| Rendement                                                                   | 95                 | %                  | 94                           | %                  |
| Performances - Émissions                                                    | Puissance nominale |                    | Puissance à charge partielle |                    |
| Monoxyde de carbone (CO à 13% O <sub>2</sub> )                              | 36                 | mg/Nm <sup>3</sup> | 195                          | mg/Nm <sup>3</sup> |
| Oxydes d'azote (NO <sub>x</sub> à 13% O <sub>2</sub> )                      | 99                 | mg/Nm <sup>3</sup> | 109                          | mg/Nm <sup>3</sup> |
| Émission de composés organiques volatils (OGC à 13% O <sub>2</sub> )        | 1                  | mg/Nm <sup>3</sup> | 5                            | mg/Nm <sup>3</sup> |
| Émissions de particules (PM à 13% O <sub>2</sub> )                          | 10                 | mg/Nm <sup>3</sup> | 10                           | mg/Nm <sup>3</sup> |
| Utilisation sûre et accessible - données d'installation du conduit de fumée | Puissance nominale |                    | Puissance à charge partielle |                    |
| Température des gaz de combustion à la sortie                               | 129                | °C                 | 90                           | °C                 |
| Tirage minimum                                                              | 8                  | Pa                 | 5                            | Pa                 |
| Masse des gaz de combustion                                                 | 13,5               | g/s                | 9,1                          | g/s                |
| Efficacité en chauffage de l'environnement                                  |                    |                    |                              |                    |
| Efficacité énergétique saisonnière en chauffage de l'environnement          | 91                 | %                  |                              |                    |
| Indice d'efficacité énergétique                                             | 134                | -                  |                              |                    |
| Classe d'efficacité énergétique                                             | A++                | -                  |                              |                    |
| Consommation électrique à la puissance nominale                             | 0,072              | KW                 |                              |                    |
| Consommation électrique à charge partielle                                  | 0,051              | KW                 |                              |                    |
| Consommation électrique en veille                                           | 0,003              | KW                 |                              |                    |
| Sécurité incendie - protection contre les matériaux combustibles            |                    |                    |                              |                    |
| Distance minimale - arrière (dR)                                            | 100                | mm                 |                              |                    |
| Distance minimale - côté (dS)                                               | 200                | mm                 |                              |                    |
| Distance minimale - plafond (dC)                                            | 750                | mm                 |                              |                    |
| Distance minimale - frontal (dP)                                            | 2000               | mm                 |                              |                    |
| Distance minimale - sol avant (dF)                                          | 1500               | mm                 |                              |                    |
| Distance minimale - rayonnement latéral (dL)                                | 1500               | mm                 |                              |                    |
| Distance minimale - dessous (dB)                                            | 10                 | mm                 |                              |                    |
| Classe de température du conduit de fumée                                   | T200               | -                  |                              |                    |
| Épaisseur et conductivité thermique du matériau isolant protecteur (λd)     | -                  |                    |                              |                    |
| Stabilité et résistance mécanique                                           |                    |                    |                              |                    |
| Capacité à supporter une cheminée                                           | 0                  | Kg                 |                              |                    |
| Utilisation durable des ressources naturelles                               |                    |                    |                              |                    |
| Informations sur la durabilité environnementale                             | NPD                | -                  |                              |                    |

Les performances du produit ci-dessus identifié sont conformes à l'ensemble des performances déclarées.

La présente déclaration de performance est délivrée conformément au règlement (UE) Nr.305/2011, sous la responsabilité du fabricant ci-dessus identifié.

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36056 Gambellara (VI)

Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## LEISTUNGSERKLÄRUNG gemäß der Verordnung (EU) Nr.305/2011

N° DoP: 103489\_S\_EN16510

|                                                 |                                                                        |
|-------------------------------------------------|------------------------------------------------------------------------|
| Einzigartige Produktkennnummer des Produkttyps: | 00271023                                                               |
| Modelle:                                        | IDRA 24 - 5★                                                           |
| Geplanter Einsatz des Produkts:                 | Raumheizung in Wohngebäuden mit Holzpellets                            |
| Hersteller:                                     | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| Markenname:                                     | SCHUSTER                                                               |
| AVCP-System:                                    | System 3-4                                                             |
| Benannte Stelle:                                | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| Prüfberichtsnummer:                             | K38192025Z1                                                            |
| Harmonisierte technische Spezifikation:         | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

## WESENTLICHE EIGENSCHAFTEN

| Leistung - Leistung und Wirkungsgrad                                           | Nennleistung |                    | Leistung bei Teillast |        |
|--------------------------------------------------------------------------------|--------------|--------------------|-----------------------|--------|
| Heizleistung für den Raum                                                      | 1,9          | KW                 | 1,3                   | KW     |
| Heizleistung für Wasser                                                        | 20,9         | KW                 | 6,6                   | KW     |
| Wirkungsgrad                                                                   | 95           | %                  | 94                    | %      |
| Leistung - Emissionen                                                          | Nennleistung |                    | Leistung bei Teillast |        |
| Kohlenmonoxid (CO bei 13% O <sub>2</sub> )                                     | 36           | mg/Nm <sup>3</sup> | 195                   | mg/Nm3 |
| Stickoxide (NO <sub>x</sub> bei 13% O <sub>2</sub> )                           | 99           | mg/Nm3             | 109                   | mg/Nm3 |
| Emission von flüchtigen organischen Verbindungen (OGC bei 13% O <sub>2</sub> ) | 1            | mg/Nm3             | 5                     | mg/Nm3 |
| Feinstaubemissionen (PM bei 13% O <sub>2</sub> )                               | 10           | mg/Nm3             | 10                    | mg/Nm3 |
| Sichere und zugängliche Nutzung - Daten zur Schornsteininstallation            | Nennleistung |                    | Leistung bei Teillast |        |
| Abgastemperatur am Ausgang                                                     | 129          | °C                 | 90                    | °C     |
| Mindestzug                                                                     | 8            | Pa                 | 5                     | Pa     |
| Abgasmasse                                                                     | 13,5         | g/s                | 9,1                   | g/s    |
| Wirkungsgrad bei Raumheizung                                                   |              |                    |                       |        |
| Jahreszeitlicher Energieeffizienz-Wirkungsgrad bei Raumheizung                 | 91           | %                  |                       |        |
| Energieeffizienzindex                                                          | 134          | -                  |                       |        |
| Energieeffizienzklasse                                                         | A++          | -                  |                       |        |
| Elektrische Leistung bei Nennleistung                                          | 0,072        | KW                 |                       |        |
| Elektrische Leistung bei Teillast                                              | 0,051        | KW                 |                       |        |
| Elektrische Leistung im Standby                                                | 0,003        | KW                 |                       |        |
| Brandschutz - Schutz vor brennbaren Materialien                                |              |                    |                       |        |
| Mindestabstand - Rückseite (dR)                                                | 100          | mm                 |                       |        |
| Mindestabstand - Seite (dS)                                                    | 200          | mm                 |                       |        |
| Mindestabstand - Decke (dC)                                                    | 750          | mm                 |                       |        |
| Mindestabstand - vordere Strahlung (dP)                                        | 2000         | mm                 |                       |        |
| Mindestabstand - vorderer Boden (dF)                                           | 1500         | mm                 |                       |        |
| Mindestabstand - seitliche Strahlung (dL)                                      | 1500         | mm                 |                       |        |
| Mindestabstand - unten (dB)                                                    | 10           | mm                 |                       |        |
| Temperaturklasse des Schornsteins                                              | T200         | -                  |                       |        |
| Dicke und Wärmeleitfähigkeit des schützenden Dämmstoffs (λd)                   | -            |                    |                       |        |
| Stabilität und mechanische Festigkeit                                          |              |                    |                       |        |
| Fähigkeit, einen Kamin zu tragen                                               | 0            | Kg                 |                       |        |
| Nachhaltige Ressourcennutzung                                                  |              |                    |                       |        |
| Informationen zur ökologischen Nachhaltigkeit                                  | NPD          | -                  |                       |        |

Die Leistungen des oben genannten Produkts entsprechen der Gesamtheit der angegebenen Leistungen.

Diese Leistungserklärung wird gemäß der Verordnung (EU) Nr.305/2011 unter der Verantwortung des oben genannten Herstellers abgegeben.

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Castel d'Ario (MN), 30/07/2025

Nicola Micheletti (Procurator)

## DECLARACIÓN DE DESEMPEÑO según el Reglamento (UE) Nr.305/2011

N° DoP: 103489\_S\_EN16510

|                                                   |                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------|
| Código de identificación único del producto-tipo: | 00271023                                                                |
| Modelos:                                          | IDRA 24 - 5★                                                            |
| Uso previsto del producto:                        | Aparato de calefacción en edificios residenciales con pellets de madera |
| Fabricante:                                       | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy  |
| Marca comercial:                                  | SCHUSTER                                                                |
| Sistema AVCP:                                     | System 3-4                                                              |
| Entidad Notificada:                               | NB 2456 - TÜV Rheinland Energy GmbH                                     |
| Número del informe de prueba:                     | K38192025Z1                                                             |
| Especificación técnica armonizada:                | EN 16510-1:2022 / EN 16510-2-6:2022                                     |

## CARACTERÍSTICAS ESENCIALES

| Rendimiento - Potencia y eficiencia                                    |  | Potencia nominal |                    | Potencia a carga parcial |        |
|------------------------------------------------------------------------|--|------------------|--------------------|--------------------------|--------|
| Potencia de calefacción al ambiente                                    |  | 1,9              | KW                 | 1,3                      | KW     |
| Potencia de calefacción al agua                                        |  | 20,9             | KW                 | 6,6                      | KW     |
| Eficiencia                                                             |  | 95               | %                  | 94                       | %      |
| Rendimiento - Emisiones                                                |  | Potencia nominal |                    | Potencia a carga parcial |        |
| Monóxido de carbono (CO al 13% O <sub>2</sub> )                        |  | 36               | mg/Nm <sup>3</sup> | 195                      | mg/Nm3 |
| Óxidos de nitrógeno (NO <sub>x</sub> al 13% O <sub>2</sub> )           |  | 99               | mg/Nm3             | 109                      | mg/Nm3 |
| Emisión de compuestos orgánicos volátiles (OGC al 13% O <sub>2</sub> ) |  | 1                | mg/Nm3             | 5                        | mg/Nm3 |
| Emisiones de partículas (PM al 13% O <sub>2</sub> )                    |  | 10               | mg/Nm3             | 10                       | mg/Nm3 |
| Uso seguro y accesible - datos de instalación de chimenea              |  | Potencia nominal |                    | Potencia a carga parcial |        |
| Temperatura de los gases de combustión en la salida                    |  | 129              | °C                 | 90                       | °C     |
| Tiraje mínimo                                                          |  | 8                | Pa                 | 5                        | Pa     |
| Masa de los gases de combustión                                        |  | 13,5             | g/s                | 9,1                      | g/s    |
| Eficiencia en calefacción ambiental                                    |  |                  |                    |                          |        |
| Eficiencia energética estacional en calefacción ambiental              |  | 91               | %                  |                          |        |
| Índice de eficiencia energética                                        |  | 134              | -                  |                          |        |
| Clase de eficiencia energética                                         |  | A++              | -                  |                          |        |
| Consumo eléctrico a potencia nominal                                   |  | 0,072            | KW                 |                          |        |
| Consumo eléctrico a carga parcial                                      |  | 0,051            | KW                 |                          |        |
| Consumo eléctrico en espera                                            |  | 0,003            | KW                 |                          |        |
| Seguridad contra incendios - protección contra materiales combustible  |  |                  |                    |                          |        |
| Distancia mínima - trasera (dR)                                        |  | 100              | mm                 |                          |        |
| Distancia mínima - lateral (dS)                                        |  | 200              | mm                 |                          |        |
| Distancia mínima - techo (dC)                                          |  | 750              | mm                 |                          |        |
| Distancia mínima - frontal (dP)                                        |  | 2000             | mm                 |                          |        |
| Distancia mínima - suelo frontal (dF)                                  |  | 1500             | mm                 |                          |        |
| Distancia mínima - radiación lateral (dL)                              |  | 1500             | mm                 |                          |        |
| Distancia mínima - debajo (dB)                                         |  | 10               | mm                 |                          |        |
| Clase de temperatura de la chimenea                                    |  | T200             | -                  |                          |        |
| Grosor y conductividad térmica del material aislante protector (λd)    |  | -                |                    |                          |        |
| Estabilidad y resistencia mecánica                                     |  |                  |                    |                          |        |
| Capacidad para sostener una chimenea                                   |  | 0                | Kg                 |                          |        |
| Uso sostenible de recursos naturales                                   |  |                  |                    |                          |        |
| Información sobre sostenibilidad ambiental                             |  | NPD              | -                  |                          |        |

El rendimiento del producto identificado anteriormente cumple con el conjunto de rendimientos declarados.

Esta declaración de desempeño se emite de acuerdo con el Reglamento (UE) Nr.305/2011, bajo la responsabilidad del fabricante anteriormente identificado.

Castel d'Ario (MN), 30/07/2025

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36056 Gambellara (VI)

Nicola Micheletti (Procurator)

**DECLARAÇÃO DE DESEMPENHO de acordo com o Regulamento (UE) Nr.305/2011 N° DoP: 103489\_S\_EN16510**

|                                                       |                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------|
| <b>Código de identificação único do produto-tipo:</b> | 00271023                                                               |
| <b>Modelos:</b>                                       | <b>IDRA 24 - 5★</b>                                                    |
| <b>Uso previsto do produto:</b>                       | Aquecimento de ambientes residenciais com pellets de madeira           |
| <b>Fabricante:</b>                                    | Unical AG S.p.A.<br>Via Roma, 123 - 46033 - Castel d'Ario (MN) - Italy |
| <b>Marca comercial:</b>                               | SCHUSTER                                                               |
| <b>Sistema AVCP:</b>                                  | System 3-4                                                             |
| <b>Entidade Notificada:</b>                           | NB 2456 - TÜV Rheinland Energy GmbH                                    |
| <b>Número do relatório de ensaio:</b>                 | K38192025Z1                                                            |
| <b>Especificação técnica harmonizada:</b>             | EN 16510-1:2022 / EN 16510-2-6:2022                                    |

**CARACTERÍSTICAS ESSENCIAIS**

| <b>Desempenho - Potência e eficiência</b>                                  | <b>Potência nominal</b> |                    | <b>Potência a carga parcial</b> |        |
|----------------------------------------------------------------------------|-------------------------|--------------------|---------------------------------|--------|
| Potência de aquecimento ao ambiente                                        | 1,9                     | KW                 | 1,3                             | KW     |
| Potência de aquecimento à água                                             | 20,9                    | KW                 | 6,6                             | KW     |
| Eficiência                                                                 | 95                      | %                  | 94                              | %      |
| <b>Desempenho - Emissões</b>                                               | <b>Potência nominal</b> |                    | <b>Potência a carga parcial</b> |        |
| Monóxido de carbono (CO al 13% O <sub>2</sub> )                            | 36                      | mg/Nm <sup>3</sup> | 195                             | mg/Nm3 |
| Óxidos de azoto (NO <sub>x</sub> al 13% O <sub>2</sub> )                   | 99                      | mg/Nm3             | 109                             | mg/Nm3 |
| Emissão de compostos orgânicos voláteis (OGC al 13% O <sub>2</sub> )       | 1                       | mg/Nm3             | 5                               | mg/Nm3 |
| Emissões de partículas (PM al 13% O <sub>2</sub> )                         | 10                      | mg/Nm3             | 10                              | mg/Nm3 |
| <b>Uso seguro e acessível - dados de instalação de chaminé</b>             | <b>Potência nominal</b> |                    | <b>Potência a carga parcial</b> |        |
| Temperatura dos gases de exaustão na saída                                 | 129                     | °C                 | 90                              | °C     |
| Tiragem mínima                                                             | 8                       | Pa                 | 5                               | Pa     |
| Massa de gases de exaustão                                                 | 13,5                    | g/s                | 9,1                             | g/s    |
| <b>Eficiência em aquecimento de ambiente</b>                               |                         |                    |                                 |        |
| Eficiência energética sazonal em aquecimento de ambiente                   | 91                      | %                  |                                 |        |
| Índice de eficiência energética                                            | 134                     | -                  |                                 |        |
| Classe de eficiência energética                                            | A++                     | -                  |                                 |        |
| Consumo elétrico a potência nominal                                        | 0,072                   | KW                 |                                 |        |
| Consumo elétrico a carga parcial                                           | 0,051                   | KW                 |                                 |        |
| Consumo elétrico em stand-by                                               | 0,003                   | KW                 |                                 |        |
| <b>Segurança contra incêndios - proteção contra materiais combustíveis</b> |                         |                    |                                 |        |
| Distância mínima - traseira (dR)                                           | 100                     | mm                 |                                 |        |
| Distância mínima - lado (dS)                                               | 200                     | mm                 |                                 |        |
| Distância mínima - teto (dC)                                               | 750                     | mm                 |                                 |        |
| Distância mínima - radiação frontal (dP)                                   | 2000                    | mm                 |                                 |        |
| Distância mínima - chão frontal (dF)                                       | 1500                    | mm                 |                                 |        |
| Distância mínima - radiação lateral (dL)                                   | 1500                    | mm                 |                                 |        |
| Distância mínima - abaixo (dB)                                             | 10                      | mm                 |                                 |        |
| Classe de temperatura da chaminé                                           | T200                    | -                  |                                 |        |
| Espessura e condutividade térmica do material isolante protetor (λd)       | -                       |                    |                                 |        |
| <b>Estabilidade e resistência mecânica</b>                                 |                         |                    |                                 |        |
| Capacidade de suportar uma chaminé                                         | 0                       | Kg                 |                                 |        |
| <b>Uso sustentável dos recursos naturais</b>                               |                         |                    |                                 |        |
| Informações sobre sustentabilidade ambiental                               | NPD                     | -                  |                                 |        |

O desempenho do produto identificado acima está em conformidade com o conjunto de desempenhos declarados.

Esta declaração de desempenho é emitida de acordo com o Regulamento (UE) Nr.305/2011, sob a responsabilidade do fabricante identificado acima.

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