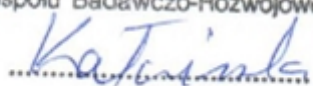


MBA/PF/V1/2025/DOP

|                                                                                                                                                                                                                                                                               |                                                                                               |                                                                                                                                |      |                   |                                            |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|-------------------|--------------------------------------------|-----------------------|
| 1.                                                                                                                                                                                                                                                                            | Niepowtarzalny kod identyfikacyjny typu wyrobu:                                               | MBA/PF                                                                                                                         |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Kategoria wyrobu                                                                              | Typ BE                                                                                                                         |      |                   |                                            |                       |
| 2.                                                                                                                                                                                                                                                                            | Zamierzone zastosowanie lub zastosowania:                                                     | Ogrzewanie pomieszczeń w budynkach                                                                                             |      |                   |                                            |                       |
| 3.                                                                                                                                                                                                                                                                            | Producent:                                                                                    | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |      |                   |                                            |                       |
| 4.                                                                                                                                                                                                                                                                            | Upoważniony przedstawiciel                                                                    | -                                                                                                                              |      |                   |                                            |                       |
| 5.                                                                                                                                                                                                                                                                            | System(-y) oceny i weryfikacji stałości właściwości użytkowych:                               | System 3                                                                                                                       |      |                   |                                            |                       |
| 6.                                                                                                                                                                                                                                                                            | Zastosowane zharmonizowane specyfikacje techniczne                                            | EN 16510-2-2:2023-06                                                                                                           |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Sprawozdanie z badań nr.                                                                      | 19/15-LG                                                                                                                       |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Jednostka lub jednostki notyfikowane                                                          | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |      |                   |                                            |                       |
| 7.                                                                                                                                                                                                                                                                            | Bezpieczeństwo pożarowe                                                                       | Spełnia                                                                                                                        |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Wytrzymałość mechaniczna kanałów spalin i czopucha                                            | Spełnia                                                                                                                        |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Temperatura powierzchni zewnętrznych                                                          | Spełnia                                                                                                                        |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Bezpieczeństwo elektryczne                                                                    | NPD                                                                                                                            |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Uwalnianie materiałów niebezpiecznych                                                         | NPD                                                                                                                            |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               |                                                                                               |                                                                                                                                |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               |                                                                                               | Przy nominalnej mocy cieplnej                                                                                                  |      |                   | Przy częściowym obciążeniu cieplnym        |                       |
|                                                                                                                                                                                                                                                                               | Emisja tlenku węgla                                                                           | CO <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD mg/m <sup>3</sup> |
|                                                                                                                                                                                                                                                                               | Emisja tlenków azotu                                                                          | NO <sub>x nom</sub> (13% O <sub>2</sub> )                                                                                      | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD mg/m <sup>3</sup> |
|                                                                                                                                                                                                                                                                               | Emisja węglowodorów                                                                           | OGC <sub>nom</sub> (13% O <sub>2</sub> )                                                                                       | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD mg/m <sup>3</sup> |
|                                                                                                                                                                                                                                                                               | Emisja cząstek stałych                                                                        | PM <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD mg/m <sup>3</sup> |
|                                                                                                                                                                                                                                                                               |                                                                                               |                                                                                                                                |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               |                                                                                               | Przy nominalnej mocy cieplnej                                                                                                  |      |                   | Przy częściowym obciążeniu cieplnym        |                       |
|                                                                                                                                                                                                                                                                               | Temperatura wyjściowa spalin                                                                  | T <sub>snom</sub>                                                                                                              | 248  | °C                | T <sub>spart</sub>                         | NPD °C                |
|                                                                                                                                                                                                                                                                               | Minimalny ciąg kominowy                                                                       | P <sub>nom</sub>                                                                                                               | 12   | Pa                | P <sub>part</sub>                          | NPD Pa                |
|                                                                                                                                                                                                                                                                               | Przepływ masy spalin                                                                          | Φ <sub>f,g nom</sub>                                                                                                           | 16.6 | g/s               | Φ <sub>f,g part</sub>                      | NPD g/s               |
|                                                                                                                                                                                                                                                                               |                                                                                               |                                                                                                                                |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               |                                                                                               | Przy nominalnej mocy cieplnej                                                                                                  |      |                   | Przy częściowym obciążeniu cieplnym        |                       |
|                                                                                                                                                                                                                                                                               | Moc cieplna                                                                                   | P <sub>nom</sub>                                                                                                               | 17   | kW                | P <sub>part</sub>                          | NPD kW                |
|                                                                                                                                                                                                                                                                               | Moc cieplna obiegu wodnego                                                                    | P <sub>wnom</sub>                                                                                                              | NPD  | kW                | P <sub>wpart</sub>                         | NPD kW                |
|                                                                                                                                                                                                                                                                               | Sezonowa efektywność ogrzewania                                                               | η <sub>nom</sub>                                                                                                               | 80   | %                 | η <sub>part</sub>                          | NPD %                 |
|                                                                                                                                                                                                                                                                               | Efektywność                                                                                   | η <sub>s</sub>                                                                                                                 | 70   | %                 |                                            |                       |
|                                                                                                                                                                                                                                                                               | Efektywność energetyczna                                                                      | Wskaźnik efektywności energetycznej                                                                                            |      |                   | EEI                                        | 105                   |
|                                                                                                                                                                                                                                                                               |                                                                                               | Klasa efektywności energetycznej                                                                                               |      |                   | -                                          | A                     |
|                                                                                                                                                                                                                                                                               | Zużycie energii elektrycznej                                                                  | el <sub>max</sub>                                                                                                              | NPD  | kW                | el <sub>min</sub>                          | NPD kW                |
|                                                                                                                                                                                                                                                                               | Zużycie energii elektrycznej w trybie czuwania                                                | el <sub>SB</sub>                                                                                                               | NPD  | kW                |                                            |                       |
|                                                                                                                                                                                                                                                                               |                                                                                               |                                                                                                                                |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Minimalna odległość od tyłu do materiału palnego                                              |                                                                                                                                |      |                   | d <sub>R</sub>                             | 180 mm                |
|                                                                                                                                                                                                                                                                               | Minimalna odległość boków od materiału palnego                                                |                                                                                                                                |      |                   | d <sub>S</sub>                             | 180 mm                |
|                                                                                                                                                                                                                                                                               | Minimalna odległość od góry do materiału palnego w suficie                                    |                                                                                                                                |      |                   | d <sub>C</sub>                             | 800 mm                |
|                                                                                                                                                                                                                                                                               | Minimalna odległość od przodu do materiału palnego                                            |                                                                                                                                |      |                   | d <sub>P</sub>                             | 2500 mm               |
|                                                                                                                                                                                                                                                                               | Minimalne odległości od przodu do materiału palnego w dolnej przedniej strefie promieniowania |                                                                                                                                |      |                   | d <sub>F</sub>                             | 1500 mm               |
|                                                                                                                                                                                                                                                                               | Minimalne odległości od przodu do materiału palnego w obszarze promieniowania bocznego przodu |                                                                                                                                |      |                   | d <sub>L</sub>                             | 1500 mm               |
|                                                                                                                                                                                                                                                                               | Minimalna odległość od dna (nie licząc stóp) do materiału palnego                             |                                                                                                                                |      |                   | d <sub>B</sub>                             | 13 mm                 |
|                                                                                                                                                                                                                                                                               |                                                                                               |                                                                                                                                |      |                   |                                            |                       |
|                                                                                                                                                                                                                                                                               | Zrównoważony rozwój środowiska                                                                | NPD                                                                                                                            |      |                   |                                            |                       |
| Właściwości użytkowe określonego powyżej wyrobu są zgodne z zestawem deklarowanych właściwości użytkowych. Niniejsza deklaracja właściwości użytkowych wydana zostaje zgodnie z rozporządzeniem (UE) nr 305/2011 na wyłączną odpowiedzialność producenta określonego powyżej. |                                                                                               |                                                                                                                                |      |                   |                                            |                       |

W imieniu producenta podpisał(-a):  
Kierownik zespołu badawczo-rozwojowego Sylwester Kałwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  


Wsola 2025-11-25

MBA/PF/V1/2025/DOP

|                                                                          |                                                                                                                                |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Unique identification code of the product type:                       | MBA/PF                                                                                                                         |
| Product type                                                             | Type BE                                                                                                                        |
| 2. Intended use(s):                                                      | Heating of rooms in buildings                                                                                                  |
| 3. Manufacturer:                                                         | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. Authorised representative                                             | -                                                                                                                              |
| 5. System(s) of assessment and verification of constancy of performance: | System 3                                                                                                                       |
| 6. Harmonised technical specifications used                              | EN 16510-2-2:2023-06                                                                                                           |
| Test report no.                                                          | 19/15-LG                                                                                                                       |
| Notified body/ies                                                        | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|    |                                                 |          |
|----|-------------------------------------------------|----------|
| 7. | Fire safety                                     | Complies |
|    | Mechanical strength of flue gas ducts and flues | Complies |
|    | External surface temperature                    | Complies |
|    | Electrical safety                               | NPD      |
|    | Release of hazardous materials                  | NPD      |

|                              | At nominal heat output                    |      |                   | At part load heat output                   |     |                   |
|------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Carbon monoxide emissions    | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Nitrogen oxides emissions    | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Hydrocarbons emissions       | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Particulate matter emissions | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                             | At nominal heat output |      |     | At part load heat output |     |     |
|-----------------------------|------------------------|------|-----|--------------------------|-----|-----|
| Flue gas outlet temperature | T <sub>snom</sub>      | 248  | °C  | T <sub>s part</sub>      | NPD | °C  |
| Minimum chimney draught     | P <sub>nom</sub>       | 12   | Pa  | P <sub>part</sub>        | NPD | Pa  |
| Dry fue gas mass flow rate  | Φ <sub>f,g nom</sub>   | 16.6 | g/s | Φ <sub>f,g part</sub>    | NPD | g/s |

|                                         | At nominal heat output  |     |    | At part load heat output |     |     |
|-----------------------------------------|-------------------------|-----|----|--------------------------|-----|-----|
| Heat output                             | P <sub>nom</sub>        | 17  | kW | P <sub>part</sub>        | NPD | kW  |
| Water heat output                       | P <sub>w nom</sub>      | NPD | kW | P <sub>w part</sub>      | NPD | kW  |
| Seasonal heating efficiency             | η <sub>nom</sub>        | 80  | %  | η <sub>part</sub>        | NPD | %   |
| Efficiency                              | η <sub>s</sub>          | 70  | %  |                          |     |     |
| Energy efficiency                       | Energy Efficiency Index |     |    |                          | EEI | 105 |
|                                         | Energy efficiency class |     |    |                          | -   | A   |
| Electricity consumption                 | el <sub>max</sub>       | NPD | kW | el <sub>min</sub>        | NPD | kW  |
| Electricity consumption in standby mode | el <sub>SB</sub>        | NPD | kW |                          |     |     |

|                                                                                         |                |      |    |
|-----------------------------------------------------------------------------------------|----------------|------|----|
| Minimum distance from the rear to combustible material                                  | d <sub>R</sub> | 180  | mm |
| Minimum distance from the sides to combustible material                                 | d <sub>S</sub> | 180  | mm |
| Minimum distance from the top to combustible material in the ceiling                    | d <sub>C</sub> | 800  | mm |
| Minimum distance from the front to combustible material                                 | d <sub>P</sub> | 2500 | mm |
| Minimum distances from the front to combustible material in bottom front radiation area | d <sub>F</sub> | 1500 | mm |
| Minimum distances from the front to combustible material in side front radiation area   | d <sub>L</sub> | 1500 | mm |
| Minimum distance below the bottom (not regarding feet) to combustible material          | d <sub>B</sub> | 13   | mm |

|                              |     |
|------------------------------|-----|
| Environmental sustainability | NPD |
|------------------------------|-----|

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:  
Head of the research and development department Sylwester Katwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katwiński*

Wsola 2025-11-25

MBA/PF/V1/2025/DOP

|                                                                        |                                                                                                                                |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Eindeutiger Identifikationscode des Produkttyps:                    | MBA/PF                                                                                                                         |
| Produktart                                                             | Typ BE                                                                                                                         |
| 2. Verwendungszweck(e):                                                | Beheizung von Räumen in Gebäuden                                                                                               |
| 3. Hersteller:                                                         | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. Bevollmächtigter Vertreter                                          | -                                                                                                                              |
| 5. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit: | Anlage 3                                                                                                                       |
| 6. Harmonisierte technische Spezifikationen verwendet                  | EN 16510-2-2:2023-06                                                                                                           |
| Prüfbericht Nr.                                                        | 19/15-LG                                                                                                                       |
| Benannte(r) Stelle(n)                                                  | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|                                                            |            |
|------------------------------------------------------------|------------|
| 7. Brandschutz                                             | Entspricht |
| Mechanische Festigkeit von Abgaskanälen und Abgasleitungen | Entspricht |
| Äußere Oberflächentemperatur                               | Entspricht |
| Elektrische Sicherheit                                     | NPD        |
| Freisetzung gefährlicher Stoffe                            | NPD        |

|                                    | Bei nominaler Wärmeleistung               |      |                   | Wärmeleistung bei Teillast                 |     |                   |
|------------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Kohlenmonoxidemissionen            | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Stickoxide Emissionen              | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Emissionen von Kohlenwasserstoffen | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Emissionen von Partikeln           | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                             | Bei nominaler Wärmeleistung |      |     | Wärmeleistung bei Teillast |     |     |
|-----------------------------|-----------------------------|------|-----|----------------------------|-----|-----|
| Abgasaustrittstemperatur    | T <sub>snom</sub>           | 248  | °C  | T <sub>spart</sub>         | NPD | °C  |
| Mindestzug des Schornsteins | P <sub>nom</sub>            | 12   | Pa  | P <sub>part</sub>          | NPD | Pa  |
| Abgasmassenstrom            | Φ <sub>f,g nom</sub>        | 16.6 | g/s | Φ <sub>f,g part</sub>      | NPD | g/s |

|                                 | Bei nominaler Wärmeleistung |     |    | Wärmeleistung bei Teillast |     |     |
|---------------------------------|-----------------------------|-----|----|----------------------------|-----|-----|
| Wärmeleistung                   | P <sub>nom</sub>            | 17  | kW | P <sub>part</sub>          | NPD | kW  |
| Wassererwärmsleistung           | P <sub>wnom</sub>           | NPD | kW | P <sub>wpart</sub>         | NPD | kW  |
| saisonale Heizleistung          | η <sub>nom</sub>            | 80  | %  | η <sub>part</sub>          | NPD | %   |
| Effizienz                       | η <sub>s</sub>              | 70  | %  |                            |     |     |
| Energieeffizienz                | Energieeffizienzindex       |     |    |                            | EEI | 105 |
|                                 | Energieeffizienzklasse      |     |    |                            | -   | A   |
| Stromverbrauch                  | el <sub>max</sub>           | NPD | kW | el <sub>min</sub>          | NPD | kW  |
| Stromverbrauch im Standby-Modus | el <sub>SB</sub>            | NPD | kW |                            |     |     |

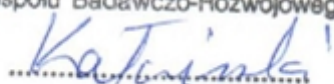
|                                                                                                        |                |      |    |
|--------------------------------------------------------------------------------------------------------|----------------|------|----|
| Mindestabstand von der Rückseite zu brennbarem Material                                                | d <sub>R</sub> | 180  | mm |
| Mindestabstand von den Seiten zu brennbarem Material                                                   | d <sub>S</sub> | 180  | mm |
| Mindestabstand von der Oberkante zu brennbaren Materialien in der Decke                                | d <sub>C</sub> | 800  | mm |
| Mindestabstand von der Vorderseite zu brennbarem Material                                              | d <sub>P</sub> | 2500 | mm |
| Mindestabstände von der Vorderseite zu brennbarem Material im unteren vorderen Strahlungsbereich       | d <sub>F</sub> | 1500 | mm |
| Mindestabstände von der Vorderseite zu brennbaren Materialien im seitlichen vorderen Strahlungsbereich | d <sub>L</sub> | 1500 | mm |
| Mindestabstand unterhalb des Bodens (nicht in Fuß gemessen) zu brennbarem Material                     | d <sub>B</sub> | 13   | mm |

|                       |     |
|-----------------------|-----|
| Umweltverträglichkeit | NPD |
|-----------------------|-----|

Die Leistung des oben genannten Produkts entspricht den erklärten Leistungen. Diese Leistungserklärung wird gemäß der Verordnung (EU) Nr. 305/2011 unter der alleinigen Verantwortung des oben genannten Herstellers ausgestellt.

Unterzeichnet für und im Namen des Herstellers von:  
Leiter der Forschungs- und Entwicklungsabteilung Sylwester Kalwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  


MBA/PF/V1/2025/DOP

|    |                                                                               |                                                                                                                                |
|----|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. | Code d'identification unique du type de produit:                              | MBA/PF                                                                                                                         |
|    | Type de produit                                                               | Taper BE                                                                                                                       |
| 2. | Utilisation(s) prévue(s):                                                     | Chauffage des locaux dans les bâtiments                                                                                        |
| 3. | Fabricant:                                                                    | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. | Représentant autorisé                                                         | -                                                                                                                              |
| 5. | Système(s) d'évaluation et de vérification de la constance des performances : | Système 3                                                                                                                      |
| 6. | Spécifications techniques harmonisées utilisées                               | EN 16510-2-2:2023-06                                                                                                           |
|    | Rapport d'essai n°                                                            | 19/15-LG                                                                                                                       |
|    | Organisme(s) notifié(s)                                                       | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|    |                                                                         |          |
|----|-------------------------------------------------------------------------|----------|
| 7. | Sécurité incendie                                                       | Conforme |
|    | Résistance mécanique des conduits et des cheminées de gaz de combustion | Conforme |
|    | Température de surface externe                                          | Conforme |
|    | Sécurité électrique                                                     | NPD      |
|    | Déversement de matières dangereuses                                     | NPD      |

|                                  | À puissance thermique nominale            |      |                   | Puissance thermique à charge partielle     |     |                   |
|----------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| émissions de monoxyde de carbone | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| émissions d'oxydes d'azote       | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| émissions d'hydrocarbures        | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| émissions de particules          | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                       | À puissance thermique nominale |      |     | Puissance thermique à charge partielle |     |     |
|---------------------------------------|--------------------------------|------|-----|----------------------------------------|-----|-----|
| température de sortie des fumées      | T <sub>s nom</sub>             | 248  | °C  | T <sub>s part</sub>                    | NPD | °C  |
| tirage minimal de cheminée            | P <sub>nom</sub>               | 12   | Pa  | P <sub>part</sub>                      | NPD | Pa  |
| débit massique de gaz combustible sec | Φ <sub>f,g nom</sub>           | 16.6 | g/s | Φ <sub>f,g part</sub>                  | NPD | g/s |

|                                        | À puissance thermique nominale  |     |    | Puissance thermique à charge partielle |     |     |
|----------------------------------------|---------------------------------|-----|----|----------------------------------------|-----|-----|
| dégagement de chaleur                  | P <sub>nom</sub>                | 17  | kW | P <sub>part</sub>                      | NPD | kW  |
| production de chaleur de l'eau         | P <sub>w nom</sub>              | NPD | kW | P <sub>w part</sub>                    | NPD | kW  |
| efficacité de chauffage saisonnière    | η <sub>nom</sub>                | 80  | %  | η <sub>part</sub>                      | NPD | %   |
| Efficacité                             | η <sub>s</sub>                  | 70  | %  |                                        |     |     |
| efficacité énergétique                 | Indice d'efficacité énergétique |     |    |                                        | EEI | 105 |
|                                        | classe d'efficacité énergétique |     |    |                                        | -   | A   |
| Consommation d'électricité             | el <sub>max</sub>               | NPD | kW | el <sub>min</sub>                      | NPD | kW  |
| Consommation électrique en mode veille | el <sub>SB</sub>                | NPD | kW |                                        |     |     |

|                                                                                                              |                |      |    |
|--------------------------------------------------------------------------------------------------------------|----------------|------|----|
| Distance minimale entre l'arrière et le matériau combustible                                                 | d <sub>R</sub> | 180  | mm |
| Distance minimale entre les côtés et le matériau combustible                                                 | d <sub>S</sub> | 180  | mm |
| Distance minimale entre le haut du plafond et les matériaux combustibles.                                    | d <sub>C</sub> | 800  | mm |
| Distance minimale entre l'avant et le matériau combustible                                                   | d <sub>P</sub> | 2500 | mm |
| Distances minimales entre l'avant et les matériaux combustibles dans la zone de rayonnement avant inférieure | d <sub>F</sub> | 1500 | mm |
| Distances minimales entre l'avant et les matériaux combustibles dans la zone de rayonnement latérale avant   | d <sub>L</sub> | 1500 | mm |
| Distance minimale sous le fond (et non en pieds) par rapport au matériau combustible                         | d <sub>B</sub> | 13   | mm |

|                             |     |
|-----------------------------|-----|
| durabilité environnementale | NPD |
|-----------------------------|-----|

Les performances du produit identifié ci-dessus sont conformes à l'ensemble des performances déclarées. Cette déclaration de performance est établie, conformément au règlement (UE) n° 305/2011, sous la seule responsabilité du fabricant identifié ci-dessus.

Signé pour et au nom du fabricant par :  
Sylwester Kałwiński, chef du département de recherche et développement

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Kałwiński*

Wsola 2025-11-25

MBA/PF/V1/2025/DOP

|                                                                           |                                                                                                                                |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Codice identificativo univoco del tipo di prodotto:                    | MBA/PF                                                                                                                         |
| Tipo di prodotto                                                          | Tipo BE                                                                                                                        |
| 2. Uso/i previsto/i:                                                      | Riscaldamento degli ambienti negli edifici                                                                                     |
| 3. Produttore:                                                            | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedliński, Polska, 0048483899914, info@kratki.com, www.kratki.com      |
| 4. Rappresentante autorizzato                                             | -                                                                                                                              |
| 5. Sistema(i) di valutazione e verifica della costanza della prestazione: | Sistema 3                                                                                                                      |
| 6. Specifiche tecniche armonizzate utilizzate                             | EN 16510-2-2:2023-06                                                                                                           |
| Rapporto di prova n.                                                      | 19/15-LG                                                                                                                       |
| Organismo/i notificato/i                                                  | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|                                                                            |          |
|----------------------------------------------------------------------------|----------|
| 7. Sicurezza antincendio                                                   | Conforme |
| Resistenza meccanica dei condotti dei gas di scarico e delle canne fumarie | Conforme |
| Temperatura della superficie esterna                                       | Conforme |
| Sicurezza elettrica                                                        | NPD      |
| Rilascio di materiali pericolosi                                           | NPD      |

|                                    | Alla potenza termica nominale             |      |                   | A carico parziale potenza termica          |     |                   |
|------------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Emissioni di monossido di carbonio | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Emissioni di ossidi di azoto       | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Emissioni di idrocarburi           | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Emissioni di particolato           | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                             | Alla potenza termica nominale |      |     | A carico parziale potenza termica |     |     |
|---------------------------------------------|-------------------------------|------|-----|-----------------------------------|-----|-----|
| Temperatura di uscita del fumo              | T <sub>snom</sub>             | 248  | °C  | T <sub>spart</sub>                | NPD | °C  |
| Tiraggio minimo della canna fumaria         | P <sub>nom</sub>              | 12   | Pa  | P <sub>part</sub>                 | NPD | Pa  |
| Portata di massa del gas combustibile secco | Φ <sub>f,g nom</sub>          | 16.6 | g/s | Φ <sub>f,g part</sub>             | NPD | g/s |

|                                                  | Alla potenza termica nominale   |     |    | A carico parziale potenza termica |     |     |
|--------------------------------------------------|---------------------------------|-----|----|-----------------------------------|-----|-----|
| potenza termica                                  | P <sub>nom</sub>                | 17  | kW | P <sub>part</sub>                 | NPD | kW  |
| Potenza termica dell'acqua                       | P <sub>wnom</sub>               | NPD | kW | P <sub>wpart</sub>                | NPD | kW  |
| Efficienza di riscaldamento stagionale           | η <sub>nom</sub>                | 80  | %  | η <sub>part</sub>                 | NPD | %   |
| Efficienza                                       | η <sub>s</sub>                  | 70  | %  |                                   |     |     |
| Efficienza energetica                            | Indice di efficienza energetica |     |    |                                   | EEI | 105 |
|                                                  | Classe di efficienza energetica |     |    |                                   | -   | A   |
| Consumo di elettricità                           | el <sub>max</sub>               | NPD | kW | el <sub>min</sub>                 | NPD | kW  |
| Consumo di energia elettrica in modalità standby | el <sub>SB</sub>                | NPD | kW |                                   |     |     |

|                                                                                                            |                |      |    |
|------------------------------------------------------------------------------------------------------------|----------------|------|----|
| Distanza minima dalla parte posteriore al materiale combustibile                                           | d <sub>R</sub> | 180  | mm |
| Distanza minima dai lati al materiale combustibile                                                         | d <sub>S</sub> | 180  | mm |
| Distanza minima dalla parte superiore al materiale combustibile nel soffitto                               | d <sub>C</sub> | 800  | mm |
| Distanza minima dalla parte anteriore al materiale combustibile                                            | d <sub>P</sub> | 2500 | mm |
| Distanze minime dalla parte anteriore al materiale combustibile nell'area di radiazione frontale inferiore | d <sub>F</sub> | 1500 | mm |
| Distanze minime dalla parte anteriore al materiale combustibile nell'area di radiazione frontale laterale  | d <sub>L</sub> | 1500 | mm |
| Distanza minima dal fondo (esclusi i piedi) al materiale combustibile                                      | d <sub>B</sub> | 13   | mm |

|                                                                                                                                                                                                                                                                            |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Sostenibilità ambientale                                                                                                                                                                                                                                                   | NPD |
| La prestazione del prodotto sopra identificato è conforme all'insieme delle prestazioni dichiarate. La presente dichiarazione di prestazione è rilasciata, in conformità al Regolamento (UE) n. 305/2011, sotto la sola responsabilità del fabbricante sopra identificato. |     |

Firmato a nome e per conto del produttore da:  
Responsabile del dipartimento di ricerca e sviluppo Sylwester Kałwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  


MBA/PF/V1/2025/DOP

|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----------------------|-------------------|
| 1.                                                                                                                                                                                                                   | Jedinečný identifikační kód typu produktu:                                                         | MBA/PF                                                                                                                         |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Typ produktu                                                                                       | Typ BE                                                                                                                         |                                           |      |                   |                                            |                       |                   |
| 2.                                                                                                                                                                                                                   | Zamýšlené použití:                                                                                 | Vytápění místností v budovách                                                                                                  |                                           |      |                   |                                            |                       |                   |
| 3.                                                                                                                                                                                                                   | Výrobce:                                                                                           | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |                                           |      |                   |                                            |                       |                   |
| 4.                                                                                                                                                                                                                   | Zplnomocněný zástupce                                                                              | -                                                                                                                              |                                           |      |                   |                                            |                       |                   |
| 5.                                                                                                                                                                                                                   | Systém(y) posuzování a ověřování stálosti vlastností:                                              | Systém 3                                                                                                                       |                                           |      |                   |                                            |                       |                   |
| 6.                                                                                                                                                                                                                   | Použité harmonizované technické specifikace                                                        | EN 16510-2-2:2023-06                                                                                                           |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Zkušební protokol č.                                                                               | 19/15-LG                                                                                                                       |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Notifikovaná osoba/y                                                                               | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |                                           |      |                   |                                            |                       |                   |
| 7.                                                                                                                                                                                                                   | Požární bezpečnost                                                                                 | Vyhovuje                                                                                                                       |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Mechanická pevnost kouřovodů a kouřovodů                                                           | Vyhovuje                                                                                                                       |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Vnější povrchová teplota                                                                           | Vyhovuje                                                                                                                       |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Elektrická bezpečnost                                                                              | NPD                                                                                                                            |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Uvolňování nebezpečných látek                                                                      | NPD                                                                                                                            |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Emise oxidu uhelnatého                                                                             | Při jmenovitém tepelném výkonu                                                                                                 | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | Při částečném zatížení tepelného výkonu    |                       |                   |
|                                                                                                                                                                                                                      | Emise oxidů dusíku                                                                                 |                                                                                                                                | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD                   | mg/m <sup>3</sup> |
|                                                                                                                                                                                                                      | Emise uhlovodíků                                                                                   |                                                                                                                                | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD                   | mg/m <sup>3</sup> |
|                                                                                                                                                                                                                      | Emise pevných částic                                                                               |                                                                                                                                | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD                   | mg/m <sup>3</sup> |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD                   | mg/m <sup>3</sup> |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Teplota výstupu spalin                                                                             | Při jmenovitém tepelném výkonu                                                                                                 | T <sub>snom</sub>                         | 248  | °C                | Při částečném zatížení tepelného výkonu    | T <sub>spart</sub>    | NPD °C            |
|                                                                                                                                                                                                                      | Minimální tah komína                                                                               |                                                                                                                                | P <sub>nom</sub>                          | 12   | Pa                |                                            | P <sub>part</sub>     | NPD Pa            |
|                                                                                                                                                                                                                      | Hmotnostní průtok suchého spalínového plynu                                                        |                                                                                                                                | Φ <sub>f,g nom</sub>                      | 16.6 | g/s               |                                            | Φ <sub>f,g part</sub> | NPD g/s           |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Tepelný výkon                                                                                      | Při jmenovitém tepelném výkonu                                                                                                 | P <sub>nom</sub>                          | 17   | kW                | Při částečném zatížení tepelného výkonu    | P <sub>part</sub>     | NPD kW            |
|                                                                                                                                                                                                                      | Tepelný výkon vody                                                                                 |                                                                                                                                | P <sub>wnom</sub>                         | NPD  | kW                |                                            | P <sub>wpart</sub>    | NPD kW            |
|                                                                                                                                                                                                                      | Sezónní účinnost vytápění                                                                          |                                                                                                                                | η <sub>nom</sub>                          | 80   | %                 |                                            | η <sub>part</sub>     | NPD %             |
|                                                                                                                                                                                                                      | Účinnost                                                                                           |                                                                                                                                | η <sub>s</sub>                            | 70   | %                 |                                            |                       |                   |
|                                                                                                                                                                                                                      | Energetická účinnost                                                                               |                                                                                                                                | Index energetické účinnosti               |      |                   |                                            | EEI                   | 105               |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                | Třída energetické účinnosti               |      |                   |                                            | -                     | A                 |
|                                                                                                                                                                                                                      | Spotřeba elektřiny                                                                                 |                                                                                                                                | e <sub>l,max</sub>                        | NPD  | kW                |                                            | e <sub>l,min</sub>    | NPD kW            |
|                                                                                                                                                                                                                      | Spotřeba elektřiny v pohotovostním režimu                                                          |                                                                                                                                | e <sub>l,SB</sub>                         | NPD  | kW                |                                            |                       |                   |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenost od zadní části k hořlavému materiálu                                          |                                                                                                                                | d <sub>R</sub>                            | 180  | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenost od boků k hořlavému materiálu                                                 |                                                                                                                                | d <sub>S</sub>                            | 180  | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenost od horního stropu k hořlavému materiálu ve stropě                             |                                                                                                                                | d <sub>C</sub>                            | 800  | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenost od přední strany k hořlavému materiálu                                        |                                                                                                                                | d <sub>P</sub>                            | 2500 | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenosti od přední strany k hořlavému materiálu v oblasti záření v dolní přední části |                                                                                                                                | d <sub>F</sub>                            | 1500 | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenosti od čelní strany k hořlavému materiálu v boční čelní radiační oblasti         |                                                                                                                                | d <sub>L</sub>                            | 1500 | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      | Minimální vzdálenost pod dnem (bez ohledu na nohy) od hořlavého materiálu                          |                                                                                                                                | d <sub>B</sub>                            | 13   | mm                |                                            |                       |                   |
|                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |
|                                                                                                                                                                                                                      | Environmentální udržitelnost                                                                       |                                                                                                                                | NPD                                       |      |                   |                                            |                       |                   |
| Výše uvedené vlastnosti výrobku jsou v souladu se souborem deklarovaných vlastností. Toto prohlášení o vlastnostech se vydává v souladu s nařízením (EU) č. 305/2011 na výhradní odpovědnost výrobce uvedeného výše. |                                                                                                    |                                                                                                                                |                                           |      |                   |                                            |                       |                   |

Podepsáno za výrobce a jeho jménem:  
Vedoucí oddělení výzkumu a vývoje Sylwester Katwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katwiński*

Wsola 2025-11-25

MBA/PF/V1/2025/DOP

|    |                                                                        |                                                                                                                                |
|----|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. | A terméktípus egyedi azonosító kódja:                                  | MBA/PF                                                                                                                         |
|    | Terméktípus                                                            | Típus BE                                                                                                                       |
| 2. | Rendeltetésszerű felhasználás(ok):                                     | Épületek helyiségeinek fűtése                                                                                                  |
| 3. | Gyártó:                                                                | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. | Meghatalmazott képviselő                                               | -                                                                                                                              |
| 5. | A teljesítményállandóság értékelésének és ellenőrzésének rendszere(i): | 3. rendszer                                                                                                                    |
| 6. | Alkalmazott harmonizált műszaki előírások                              | EN 16510-2-2:2023-06                                                                                                           |
|    | Vizsgálati jelentés száma                                              | 19/15-LG                                                                                                                       |
|    | Bejelentett szervezet(ek).                                             | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|    |                                                       |          |
|----|-------------------------------------------------------|----------|
| 7. | Tűzbiztonság                                          | Megfelel |
|    | Füstgázcsatornák és füstcsövek mechanikai szilárdsága | Megfelel |
|    | Külső felületi hőmérséklet                            | Megfelel |
|    | Elektromos biztonság                                  | NPD      |
|    | Veszélyes anyagok kibocsátása                         | NPD      |

|                          | Névleges hőteljesítményen                 |      |                   | Részleges terhelésű hőteljesítménynél      |     |                   |
|--------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Szén-monoxid-kibocsátás  | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Nitrogén-oxid kibocsátás | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Szénhidrogén kibocsátás  | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Részecsk kibocsátás      | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                              | Névleges hőteljesítményen |      |     | Részleges terhelésű hőteljesítménynél |     |     |
|------------------------------|---------------------------|------|-----|---------------------------------------|-----|-----|
| Füstgáz kimeneti hőmérséklet | T <sub>snom</sub>         | 248  | °C  | T <sub>spart</sub>                    | NPD | °C  |
| Minimális kéményhuzat        | P <sub>nom</sub>          | 12   | Pa  | P <sub>part</sub>                     | NPD | Pa  |
| Száraz füstgáz tömegárama    | Φ <sub>f,g nom</sub>      | 16.6 | g/s | Φ <sub>f,g part</sub>                 | NPD | g/s |

|                                      | Névleges hőteljesítményen   |     |    | Részleges terhelésű hőteljesítménynél |     |    |
|--------------------------------------|-----------------------------|-----|----|---------------------------------------|-----|----|
| Hőteljesítmény                       | P <sub>nom</sub>            | 17  | kW | P <sub>part</sub>                     | NPD | kW |
| Víz hőteljesítménye                  | P <sub>wnom</sub>           | NPD | kW | P <sub>wpart</sub>                    | NPD | kW |
| Szezonális fűtési hatékonyság        | η <sub>nom</sub>            | 80  | %  | η <sub>part</sub>                     | NPD | %  |
| Hatékonyság                          | η <sub>s</sub>              | 70  | %  |                                       |     |    |
| Energiahatékonyság                   | Energiahatékonysági index   |     |    | EEI                                   | 105 |    |
|                                      | Energiahatékonysági osztály |     |    | -                                     | A   |    |
| Áramfogyasztás                       | el <sub>max</sub>           | NPD | kW | el <sub>min</sub>                     | NPD | kW |
| Áramfogyasztás készenléti üzemmódban | el <sub>SB</sub>            | NPD | kW |                                       |     |    |

|                                                                                           |                |      |    |
|-------------------------------------------------------------------------------------------|----------------|------|----|
| Minimális távolság hátulról az éghető anyagtól                                            | d <sub>R</sub> | 180  | mm |
| Minimális távolság az éghető anyagtól az oldalaktól                                       | d <sub>S</sub> | 180  | mm |
| Minimális távolság a mennyezet tetejétől az éghető anyagig                                | d <sub>C</sub> | 800  | mm |
| Minimális távolság az elejétől az éghető anyagig                                          | d <sub>P</sub> | 2500 | mm |
| Minimális távolságok az előlő résztől az éghető anyagig az alsó előlő sugárzási területen | d <sub>F</sub> | 1500 | mm |
| Minimális távolságok az éghető anyagtól az oldalsó előlő sugárzási területen              | d <sub>L</sub> | 1500 | mm |
| Minimális távolság az alj alatt (a lábakat nem számítva) az éghető anyagtól               | d <sub>B</sub> | 13   | mm |

|                            |     |
|----------------------------|-----|
| Környezeti fenntarthatóság | NPD |
|----------------------------|-----|

A fent meghatározott termék teljesítménye megfelel a bejelentett teljesítmény(ek) készletének. Ez a teljesítménynyilatkozat kiadása a 305/2011/EU rendelettel összhangban a fent meghatározott gyártó kizárólagos felelősségére történik.

gyártó nevében és nevében írta alá:  
Sylwester Kałwiński, a kutatási és fejlesztési osztály vezetője

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Kałwiński*

MBA/PF/V1/2025/DOP

|                                                                   |                                                                                                                                |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Cod unic de identificare al tipului de produs:                 | MBA/PF                                                                                                                         |
| Tipul de produs                                                   | Tip BE                                                                                                                         |
| 2. Utilizare(e) prevăzută(e):                                     | Încălzirea camerelor din clădiri                                                                                               |
| 3. Producător:                                                    | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. Reprezentant autorizat                                         | -                                                                                                                              |
| 5. Sistem(e) de evaluare și verificare a constanței performanței: | Sistemul 3                                                                                                                     |
| 6. Specificații tehnice armonizate utilizate                      | EN 16510-2-2:2023-06                                                                                                           |
| Raport de testare nr.                                             | 19/15-LG                                                                                                                       |
| Organisme notificate                                              | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| 7. Siguranța la incendiu                                             | Se conformează |
| Rezistența mecanică a conductelor de gaze arse și a coșurilor de fum | Se conformează |
| Temperatura suprafeței exterioare                                    | Se conformează |
| Siguranța electrică                                                  | NPD            |
| Eliberarea de materiale periculoase                                  | NPD            |

|                               | La puterea termică nominală               |      |                   | La putere termică parțială                 |     |                   |
|-------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Emisiile de monoxid de carbon | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Emisiile de oxizi de azot     | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Emisiile de hidrocarburi      | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Emisiile de particule         | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                            | La puterea termică nominală |      |     | La putere termică parțială |     |     |
|--------------------------------------------|-----------------------------|------|-----|----------------------------|-----|-----|
| Temperatura de ieșire a gazelor de ardere  | T <sub>snom</sub>           | 248  | °C  | T <sub>spart</sub>         | NPD | °C  |
| Tracțiune minimă a coșului                 | P <sub>nom</sub>            | 12   | Pa  | P <sub>part</sub>          | NPD | Pa  |
| Debitul masic al gazului combustibil uscat | Φ <sub>f,g nom</sub>        | 16.6 | g/s | Φ <sub>f,g part</sub>      | NPD | g/s |

|                                                | La puterea termică nominală      |     |    | La putere termică parțială |     |     |
|------------------------------------------------|----------------------------------|-----|----|----------------------------|-----|-----|
| Producție termică                              | P <sub>nom</sub>                 | 17  | kW | P <sub>part</sub>          | NPD | kW  |
| Producția de căldură a apei                    | P <sub>wnom</sub>                | NPD | kW | P <sub>wpart</sub>         | NPD | kW  |
| Eficiența încălzirii sezoniere                 | η <sub>nom</sub>                 | 80  | %  | η <sub>part</sub>          | NPD | %   |
| Eficiență                                      | η <sub>s</sub>                   | 70  | %  |                            |     |     |
| Eficiență energetică                           | Indicele de eficiență energetică |     |    |                            | EEI | 105 |
|                                                | Clasa de eficiență energetică    |     |    |                            | -   | A   |
| Consumul de energie electrică                  | e <sub>lmax</sub>                | NPD | kW | e <sub>lmin</sub>          | NPD | kW  |
| Consumul de energie electrică în modul standby | e <sub>lSB</sub>                 | NPD | kW |                            |     |     |

|                                                                                                         |                |      |    |
|---------------------------------------------------------------------------------------------------------|----------------|------|----|
| Distanța minimă din spate până la materialul combustibil                                                | d <sub>R</sub> | 180  | mm |
| Distanța minimă de la margini la materialul combustibil                                                 | d <sub>S</sub> | 180  | mm |
| Distanța minimă de la partea superioară până la materialul combustibil din tavan                        | d <sub>C</sub> | 800  | mm |
| Distanța minimă de la față la materialul combustibil                                                    | d <sub>P</sub> | 2500 | mm |
| Distanțe minime de la partea frontală la materialul combustibil în zona de radiație frontală inferioară | d <sub>F</sub> | 1500 | mm |
| Distanțe minime de la partea frontală la materialul combustibil în zona de radiație frontală laterală   | d <sub>L</sub> | 1500 | mm |
| Distanța minimă de la fund (fără a lua în considerare picioarele) până la materialul combustibil        | d <sub>B</sub> | 13   | mm |

|                           |     |
|---------------------------|-----|
| Sustenabilitatea mediului | NPD |
|---------------------------|-----|

Performanța produsului identificat mai sus este în conformitate cu setul de performanță/performanțe declarate. Această declarație de performanță este emisă, în conformitate cu Regulamentul (UE) nr. 305/2011, sub responsabilitatea exclusivă a producătorului identificat mai sus.

Semnat pentru și în numele producătorului de:  
Șeful departamentului de cercetare și dezvoltare Sylwester Kalwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Kalwiński*

Wsola 2025-11-25

MBA/PF/V1/2025/DOP

|    |                                                                                                                                                                                                                                                              |                                                                                                                                |      |                   |                                                                             |                       |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|-------------------|-----------------------------------------------------------------------------|-----------------------|
| 1. | Μοναδικός κωδικός αναγνώρισης του τύπου προϊόντος:                                                                                                                                                                                                           | MBA/PF                                                                                                                         |      |                   |                                                                             |                       |
|    | Τύπος προϊόντος                                                                                                                                                                                                                                              | Τύπος                                                                                                                          | BE   |                   |                                                                             |                       |
| 2. | Προβλεπόμενη χρήση(ες):                                                                                                                                                                                                                                      | Θέρμανση δωματίων σε κτίρια                                                                                                    |      |                   |                                                                             |                       |
| 3. | Κατασκευαστής:                                                                                                                                                                                                                                               | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedliński, Polska, 0048483899914, info@kratki.com, www.kratki.com      |      |                   |                                                                             |                       |
| 4. | Εξουσιοδοτημένος εκπρόσωπος                                                                                                                                                                                                                                  | -                                                                                                                              |      |                   |                                                                             |                       |
| 5. | Σύστημα(α) αξιολόγησης και επαλήθευσης της σταθερότητας της απόδοσης:                                                                                                                                                                                        | Σύστημα 3                                                                                                                      |      |                   |                                                                             |                       |
| 6. | Χρησιμοποιούμενες εναρμονισμένες τεχνικές προδιαγραφές Έκθεση δοκιμής αριθ.                                                                                                                                                                                  | EN 16510-2-2:2023-06<br>19/15-LG                                                                                               |      |                   |                                                                             |                       |
|    | Κοινοποιημένος οργανισμός/οι                                                                                                                                                                                                                                 | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |      |                   |                                                                             |                       |
| 7. | Πυρασφάλεια                                                                                                                                                                                                                                                  | Συμμορφώνεται                                                                                                                  |      |                   |                                                                             |                       |
|    | Μηχανική αντοχή αγωγών καυσαερίων και καπνοδόχων                                                                                                                                                                                                             | Συμμορφώνεται                                                                                                                  |      |                   |                                                                             |                       |
|    | Θερμοκρασία εξωτερικής επιφάνειας                                                                                                                                                                                                                            | Συμμορφώνεται                                                                                                                  |      |                   |                                                                             |                       |
|    | Ηλεκτρική ασφάλεια                                                                                                                                                                                                                                           | NPD                                                                                                                            |      |                   |                                                                             |                       |
|    | Απελευθέρωση επικινδυνων υλικών                                                                                                                                                                                                                              | NPD                                                                                                                            |      |                   |                                                                             |                       |
|    | Εκπομπές μονοξειδίου του άνθρακα                                                                                                                                                                                                                             | Στην ονομαστική θερμική ισχύ<br>CO <sub>nom</sub> (13% O <sub>2</sub> )                                                        | 1183 | mg/m <sup>3</sup> | Σε θερμική ισχύ μερικού φορτίου<br>CO <sub>part</sub> (13% O <sub>2</sub> ) | NPD mg/m <sup>3</sup> |
|    | Εκπομπές οξειδίων του αζώτου                                                                                                                                                                                                                                 | NO <sub>x nom</sub> (13% O <sub>2</sub> )                                                                                      | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> )                                  | NPD mg/m <sup>3</sup> |
|    | Εκπομπές υδρογονανθράκων                                                                                                                                                                                                                                     | OGC <sub>nom</sub> (13% O <sub>2</sub> )                                                                                       | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )                                   | NPD mg/m <sup>3</sup> |
|    | Εκπομπές σωματιδίων                                                                                                                                                                                                                                          | PM <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )                                    | NPD mg/m <sup>3</sup> |
|    | Θερμοκρασία εξόδου καπνοδόχου                                                                                                                                                                                                                                | Στην ονομαστική θερμική ισχύ<br>T <sub>s nom</sub>                                                                             | 248  | °C                | Σε θερμική ισχύ μερικού φορτίου<br>T <sub>s part</sub>                      | NPD °C                |
|    | Ελάχιστη έλξη καμινάδας                                                                                                                                                                                                                                      | P <sub>nom</sub>                                                                                                               | 12   | Pa                | P <sub>part</sub>                                                           | NPD Pa                |
|    | Ρυθμός ροής μάζας ξηρού καυσαερίου                                                                                                                                                                                                                           | Φ <sub>f,g nom</sub>                                                                                                           | 16.6 | g/s               | Φ <sub>f,g part</sub>                                                       | NPD g/s               |
|    | Θερμική ισχύς                                                                                                                                                                                                                                                | Στην ονομαστική θερμική ισχύ<br>P <sub>nom</sub>                                                                               | 17   | kW                | Σε θερμική ισχύ μερικού φορτίου<br>P <sub>part</sub>                        | NPD kW                |
|    | Θερμική ισχύς νερού                                                                                                                                                                                                                                          | P <sub>w nom</sub>                                                                                                             | NPD  | kW                | P <sub>w part</sub>                                                         | NPD kW                |
|    | Εποχιακή απόδοση θέρμανσης                                                                                                                                                                                                                                   | η <sub>nom</sub>                                                                                                               | 80   | %                 | η <sub>part</sub>                                                           | NPD %                 |
|    | Αποδοτικότητα                                                                                                                                                                                                                                                | η <sub>s</sub>                                                                                                                 | 70   | %                 |                                                                             |                       |
|    | Ενεργειακή απόδοση                                                                                                                                                                                                                                           | Δείκτης Ενεργειακής Απόδοσης                                                                                                   |      |                   | EEI                                                                         | 105                   |
|    | Κατανάλωση ηλεκτρικής ενέργειας                                                                                                                                                                                                                              | Κατηγορία ενεργειακής απόδοσης                                                                                                 |      |                   | -                                                                           | A                     |
|    | Κατανάλωση ηλεκτρικής ενέργειας σε κατάσταση αναμονής                                                                                                                                                                                                        | el <sub>max</sub>                                                                                                              | NPD  | kW                | el <sub>min</sub>                                                           | NPD kW                |
|    |                                                                                                                                                                                                                                                              | el <sub>SB</sub>                                                                                                               | NPD  | kW                |                                                                             |                       |
|    | Ελάχιστη απόσταση από το πίσω μέρος έως το εύφλεκτο υλικό                                                                                                                                                                                                    | d <sub>R</sub>                                                                                                                 | 180  | mm                |                                                                             |                       |
|    | Ελάχιστη απόσταση από τις πλευρές έως το εύφλεκτο υλικό                                                                                                                                                                                                      | d <sub>S</sub>                                                                                                                 | 180  | mm                |                                                                             |                       |
|    | Ελάχιστη απόσταση από την κορυφή έως το εύφλεκτο υλικό στην οροφή                                                                                                                                                                                            | d <sub>C</sub>                                                                                                                 | 800  | mm                |                                                                             |                       |
|    | Ελάχιστη απόσταση από το μπροστινό μέρος έως το εύφλεκτο υλικό                                                                                                                                                                                               | d <sub>P</sub>                                                                                                                 | 2500 | mm                |                                                                             |                       |
|    | Ελάχιστες αποστάσεις από το μπροστινό μέρος έως το εύφλεκτο υλικό στην περιοχή ακτινοβολίας του κάτω μπροστινού μέρους                                                                                                                                       | d <sub>F</sub>                                                                                                                 | 1500 | mm                |                                                                             |                       |
|    | Ελάχιστες αποστάσεις από το μέτωπο έως το εύφλεκτο υλικό στην πλευρική περιοχή ακτινοβολίας του εμπρόσθιου μέρους                                                                                                                                            | d <sub>L</sub>                                                                                                                 | 1500 | mm                |                                                                             |                       |
|    | Ελάχιστη απόσταση κάτω από τον πυθμένα (δεν αφορά τα πόδια) από εύφλεκτο υλικό                                                                                                                                                                               | d <sub>B</sub>                                                                                                                 | 13   | mm                |                                                                             |                       |
|    | Περιβαλλοντική βιωσιμότητα                                                                                                                                                                                                                                   | NPD                                                                                                                            |      |                   |                                                                             |                       |
|    | Η απόδοση του προϊόντος που προσδιορίζεται παραπάνω είναι σύμφωνη με το σύνολο των δηλωμένων επιδόσεων. Αυτή η δήλωση απόδοσης εκδίδεται, σύμφωνα με τον κανονισμό (ΕΕ) αριθ. 305/2011, με αποκλειστική ευθύνη του κατασκευαστή που προσδιορίζεται παραπάνω. |                                                                                                                                |      |                   |                                                                             |                       |

Υπογράφεται για λογαριασμό και για λογαριασμό του κατασκευαστή από:  
Επικεφαλής του τμήματος έρευνας και ανάπτυξης Sylwester Kałwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Sylwester Kałwiński*

MBA/PF/V1/2025/DOP

|    |                                                                           |                                                                                                                                |
|----|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. | Código de identificación único del tipo de producto:                      | MBA/PF                                                                                                                         |
|    | Tipo de producto                                                          | Tipo BE                                                                                                                        |
| 2. | Uso(s) previsto(s):                                                       | Calefacción de habitaciones en edificios                                                                                       |
| 3. | Fabricante:                                                               | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedliński, Polska, 0048483899914, info@kratki.com, www.kratki.com      |
| 4. | Representante autorizado                                                  | -                                                                                                                              |
| 5. | Sistema(s) de evaluación y verificación de la constancia del rendimiento: | Sistema 3                                                                                                                      |
| 6. | Se utilizaron especificaciones técnicas armonizadas                       | EN 16510-2-2:2023-06                                                                                                           |
|    | Informe de ensayo nº                                                      | 19/15-LG                                                                                                                       |
|    | Organismo(s) notificado(s)                                                | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|    |                                                                          |        |
|----|--------------------------------------------------------------------------|--------|
| 7. | Seguridad contra incendios                                               | Cumple |
|    | Resistencia mecánica de los conductos y chimeneas de gases de combustión | Cumple |
|    | Temperatura de la superficie externa                                     | Cumple |
|    | Seguridad eléctrica                                                      | NPD    |
|    | Liberación de materiales peligrosos                                      | NPD    |

|  |                                  |                                           |                                         |                   |                                            |                                 |                                          |     |                   |
|--|----------------------------------|-------------------------------------------|-----------------------------------------|-------------------|--------------------------------------------|---------------------------------|------------------------------------------|-----|-------------------|
|  | emisiones de monóxido de carbono | Con una potencia calorífica nominal       | CO <sub>nom</sub> (13% O <sub>2</sub> ) | 1183              | mg/m <sup>3</sup>                          | Salida de calor a carga parcial | CO <sub>part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
|  | emisiones de óxidos de nitrógeno | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133                                     | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD                             | mg/m <sup>3</sup>                        |     |                   |
|  | emisiones de hidrocarburos       | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44                                      | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD                             | mg/m <sup>3</sup>                        |     |                   |
|  | Emisiones de partículas          | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35                                      | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD                             | mg/m <sup>3</sup>                        |     |                   |

|  |                                       |                                     |                    |     |                       |                                 |                     |     |    |
|--|---------------------------------------|-------------------------------------|--------------------|-----|-----------------------|---------------------------------|---------------------|-----|----|
|  | Temperatura de salida de humos        | Con una potencia calorífica nominal | T <sub>s nom</sub> | 248 | °C                    | Salida de calor a carga parcial | T <sub>s part</sub> | NPD | °C |
|  | Tiro mínimo de la chimenea            | P <sub>nom</sub>                    | 12                 | Pa  | P <sub>part</sub>     | NPD                             | Pa                  |     |    |
|  | caudal másico de gas combustible seco | Φ <sub>f,g nom</sub>                | 16.6               | g/s | Φ <sub>f,g part</sub> | NPD                             | g/s                 |     |    |

|  |                                           |                                     |                  |    |                     |                                 |                   |     |    |
|--|-------------------------------------------|-------------------------------------|------------------|----|---------------------|---------------------------------|-------------------|-----|----|
|  | Producción de calor                       | Con una potencia calorífica nominal | P <sub>nom</sub> | 17 | kW                  | Salida de calor a carga parcial | P <sub>part</sub> | NPD | kW |
|  | salida de calor del agua                  | P <sub>w nom</sub>                  | NPD              | kW | P <sub>w part</sub> | NPD                             | kW                |     |    |
|  | eficiencia de la calefacción estacional   | η <sub>nom</sub>                    | 80               | %  | η <sub>part</sub>   | NPD                             | %                 |     |    |
|  | Eficiencia                                | η <sub>s</sub>                      | 70               | %  |                     |                                 |                   |     |    |
|  | eficiencia energética                     | Índice de eficiencia energética     |                  |    |                     | EEI                             | 105               |     |    |
|  |                                           | clase de eficiencia energética      |                  |    |                     | -                               | A                 |     |    |
|  | consumo de electricidad                   | el <sub>max</sub>                   | NPD              | kW | el <sub>min</sub>   | NPD                             | kW                |     |    |
|  | Consumo de electricidad en modo de espera | el <sub>SB</sub>                    | NPD              | kW |                     |                                 |                   |     |    |

|  |                                                                                                           |                |      |    |
|--|-----------------------------------------------------------------------------------------------------------|----------------|------|----|
|  | Distancia mínima desde la parte trasera al material combustible                                           | d <sub>R</sub> | 180  | mm |
|  | Distancia mínima desde los laterales al material combustible                                              | d <sub>S</sub> | 180  | mm |
|  | Distancia mínima desde la parte superior hasta el material combustible en el techo                        | d <sub>C</sub> | 800  | mm |
|  | Distancia mínima desde la parte frontal al material combustible                                           | d <sub>P</sub> | 2500 | mm |
|  | Distancias mínimas desde el frente hasta el material combustible en la zona de radiación frontal inferior | d <sub>F</sub> | 1500 | mm |
|  | Distancias mínimas desde el frente hasta el material combustible en la zona de radiación frontal lateral  | d <sub>L</sub> | 1500 | mm |
|  | Distancia mínima desde el fondo (sin tener en cuenta los pies) hasta el material combustible              | d <sub>B</sub> | 13   | mm |

|                          |     |
|--------------------------|-----|
| sostenibilidad ambiental | NPD |
|--------------------------|-----|

Las prestaciones del producto identificado anteriormente son conformes con el conjunto de prestaciones declaradas. La presente declaración de prestaciones se emite, de conformidad con el Reglamento (UE) n.º 305/2011, bajo la exclusiva responsabilidad del fabricante identificado anteriormente.

Firmado en nombre y representación del fabricante por:  
Jefe del departamento de investigación y desarrollo Sylwester Kałwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Sylwester Kałwiński*

Wsola 2025-11-25

|                                                                      |                                                                                                                                |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Tuotetyypin yksilöllinen tunnistekoodi:                           | MBA/PF                                                                                                                         |
| Tuotetyyppi                                                          | Tyyppi BE                                                                                                                      |
| 2. Käyttötarkoitus:                                                  | Huoneiden lämmitys rakennuksissa                                                                                               |
| 3. Valmistaja:                                                       | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. Valtuutettu edustaja                                              | -                                                                                                                              |
| 5. Suorituskyvyn pysyvyyden arviointi- ja todentamisyjärjestelmä(t): | Järjestelmä 3                                                                                                                  |
| 6. Käytetyt yhdenmukaistetut tekniset eritelmät                      | EN 16510-2-2:2023-06                                                                                                           |
| Testiraportin nro                                                    | 19/15-LG                                                                                                                       |
| Ilmoitettu laitos/ilmoitetut laitokset                               | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.iem.com.pl |

|    |                                                |         |
|----|------------------------------------------------|---------|
| 7. | Paloturvallisuus                               | Täyttää |
|    | Savukaasukanavien ja hormien mekaaninen lujuus | Täyttää |
|    | Ulkopinnan lämpötila                           | Täyttää |
|    | Sähköturvallisuus                              | NPD     |
|    | Vaarallisten aineiden vapautuminen             | NPD     |

|                       | Nimellisellä lämpötehollla                |      |                   | Lämmöntuotto osakuormalla                  |     |                   |
|-----------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Hiilimonoksidipäästöt | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Typpidioksidipäästöt  | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Hiilivetyjen päästöt  | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Hiukkaspäästöt        | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                |                           |      |     |                           |     |     |
|--------------------------------|---------------------------|------|-----|---------------------------|-----|-----|
|                                | Nimellisellä lämpöteholla |      |     | Lämmöntuotto osakuormalla |     |     |
| Savupiipun ulostulon lämpötila | $T_{\text{snom}}$         | 248  | °C  | $T_{\text{spart}}$        | NPD | °C  |
| Minimivetohormi                | $P_{\text{nom}}$          | 12   | Pa  | $P_{\text{part}}$         | NPD | Pa  |
| Kuivan savukaasun massavirta   | $\Phi_{\text{f,g nom}}$   | 16.6 | g/s | $\Phi_{\text{f,g part}}$  | NPD | g/s |

|                                     | Nimellisellä lämpöteholla |     |    | Lämmöntuotto osakuormalla |     |     |
|-------------------------------------|---------------------------|-----|----|---------------------------|-----|-----|
| Lämmöntuotto                        | $P_{nom}$                 | 17  | kW | $P_{part}$                | NPD | kW  |
| Veden lämmöntuotto                  | $P_{wnom}$                | NPD | kW | $P_{wpart}$               | NPD | kW  |
| Kausittaisen lämmityksen hyötysuhde | $\eta_{nom}$              | 80  | %  | $\eta_{part}$             | NPD | %   |
| Tehokkuus                           | $\eta_s$                  | 70  | %  |                           |     |     |
| Energiatehokkuus                    | Energiatehokkuusindeksi   |     |    |                           | EEI | 105 |
|                                     | Energiatehokkuusluokka    |     |    |                           | -   | A   |
| Sähkönkulutus                       | $el_{max}$                | NPD | kW | $el_{min}$                | NPD | kW  |
| Sähkönkulutus valmiustilassa        | $el_{SB}$                 | NPD | kW |                           |     |     |

|                                                                                           |       |      |    |
|-------------------------------------------------------------------------------------------|-------|------|----|
| Minimietäisyys takaosasta palavaan materiaaliin                                           | $d_R$ | 180  | mm |
| Sivujen vähimmäisetäisyys palavaan materiaaliin                                           | $d_S$ | 180  | mm |
| Minimietäisyys yläreunasta katon palamiskykyiseen materiaaliin                            | $d_C$ | 800  | mm |
| Minimietäisyys edestä palavaan materiaaliin                                               | $d_P$ | 2500 | mm |
| Vähimmäiset etäisyydet etupuolelta palavaan materiaaliin alaosan etusäteilyalueella       | $d_F$ | 1500 | mm |
| Vähimmäiset etäisyydet edestä palavaan materiaaliin sivuttaissuuntaisella säteilyalueella | $d_L$ | 1500 | mm |
| Minimietäisyys pohjan alapuolelta (jalkoja ei lasketa) palavaan materiaaliin              | $d_B$ | 13   | mm |

|                                                                                                                                                                                                                          |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ympäristön kestävyys                                                                                                                                                                                                     | NPD |
| Yllä tunnistetun tuotteen suorituskyky on ilmoitettujen suoritusarvojen mukainen. Tämä suoritusasovakuutus on annettu asetuksen (EU) N:o 305/2011 mukaisesti, ja se on yksinomaan edellä mainitun valmistajan vastuulla. |     |

Allekirjoittanut valmistajan puolesta ja puolesta:  
Tutkimus- ja kehitysosaston johtaja Sylwester Kałwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*K. Trzaski*

MBA/PF/V1/2025/DOP

|                                     |                                                                                   |                                                                                                                                |                                |                                                |     |                   |
|-------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------|-----|-------------------|
| 1.                                  | Уникален идентификационен код на вида продукт:                                    | MBA/PF                                                                                                                         |                                |                                                |     |                   |
|                                     | Тип продукт                                                                       | Тип BE                                                                                                                         |                                |                                                |     |                   |
| 2.                                  | Употреба(и) по предназначение:                                                    | Отопление на помещения в сгради                                                                                                |                                |                                                |     |                   |
| 3.                                  | производител:                                                                     | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |                                |                                                |     |                   |
| 4.                                  | Упълномощен представител                                                          | -                                                                                                                              |                                |                                                |     |                   |
| 5.                                  | Система(и) за оценка и проверка на постоянството на експлоатационните показатели: | Система 3                                                                                                                      |                                |                                                |     |                   |
| 6.                                  | Използвани хармонизирани технически спецификации                                  | EN 16510-2-2:2023-06                                                                                                           |                                |                                                |     |                   |
|                                     | Протокол от изпитване №                                                           | 19/15-LG                                                                                                                       |                                |                                                |     |                   |
|                                     | Нотифициран орган/и                                                               | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |                                |                                                |     |                   |
| 7.                                  | Пожарна безопасност                                                               | Съответства                                                                                                                    |                                |                                                |     |                   |
|                                     | Механична якост на димоходите и дымоотводите                                      | Съответства                                                                                                                    |                                |                                                |     |                   |
|                                     | Температура на външната повърхност                                                | Съответства                                                                                                                    |                                |                                                |     |                   |
|                                     | Електрическа безопасност                                                          | NPD                                                                                                                            |                                |                                                |     |                   |
|                                     | Изпускане на опасни материали                                                     | NPD                                                                                                                            |                                |                                                |     |                   |
|                                     |                                                                                   |                                                                                                                                |                                |                                                |     |                   |
|                                     |                                                                                   |                                                                                                                                | При номинална топлинна мощност | При частично натоварване на топлинната мощност |     |                   |
| Емисии на въглероден оксид          | CO <sub>nom</sub> (13% O <sub>2</sub> )                                           | 1183                                                                                                                           | mg/m <sup>3</sup>              | CO <sub>part</sub> (13% O <sub>2</sub> )       | NPD | mg/m <sup>3</sup> |
| Емисии на азотни оксиди             | NO <sub>x nom</sub> (13% O <sub>2</sub> )                                         | 133                                                                                                                            | mg/m <sup>3</sup>              | NO <sub>x part</sub> (13% O <sub>2</sub> )     | NPD | mg/m <sup>3</sup> |
| Емисии на въглеводороди             | OGC <sub>nom</sub> (13% O <sub>2</sub> )                                          | 44                                                                                                                             | mg/m <sup>3</sup>              | OGC <sub>part</sub> (13% O <sub>2</sub> )      | NPD | mg/m <sup>3</sup> |
| Емисии на твърди частици            | PM <sub>nom</sub> (13% O <sub>2</sub> )                                           | 35                                                                                                                             | mg/m <sup>3</sup>              | PM <sub>part</sub> (13% O <sub>2</sub> )       | NPD | mg/m <sup>3</sup> |
|                                     |                                                                                   |                                                                                                                                |                                |                                                |     |                   |
|                                     |                                                                                   |                                                                                                                                | При номинална топлинна мощност | При частично натоварване на топлинната мощност |     |                   |
| Температура на изхода на дымоотвода | T <sub>snom</sub>                                                                 | 248                                                                                                                            | °C                             | T <sub>s part</sub>                            | NPD | °C                |
| Минимална тяга на комина            | P <sub>nom</sub>                                                                  | 12                                                                                                                             | Pa                             | P <sub>part</sub>                              | NPD | Pa                |
| Масов дебит на сухия димен газ      | Φ <sub>f,g nom</sub>                                                              | 16.6                                                                                                                           | g/s                            | Φ <sub>f,g part</sub>                          | NPD | g/s               |
|                                     |                                                                                   |                                                                                                                                |                                |                                                |     |                   |
|                                     |                                                                                   |                                                                                                                                | При номинална топлинна мощност | При частично натоварване на топлинната мощност |     |                   |
| Топлинна мощност                    | P <sub>nom</sub>                                                                  | 17                                                                                                                             | kW                             | P <sub>part</sub>                              | NPD | kW                |
| Топлинна мощност на водата          | P <sub>w nom</sub>                                                                | NPD                                                                                                                            | kW                             | P <sub>w part</sub>                            | NPD | kW                |
| Сезонна ефективност па отоплението  | η <sub>nom</sub>                                                                  | 80                                                                                                                             | %                              | η <sub>part</sub>                              | NPD | %                 |
| Ефективност                         | η <sub>s</sub>                                                                    | 70                                                                                                                             | %                              |                                                |     |                   |



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|    |                                                                                     |                                                                                                                                |
|----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. | Unieke identificatiecode van het producttype:                                       | MBA/PF                                                                                                                         |
|    | Producttype                                                                         | Type BE                                                                                                                        |
| 2. | Beoogd gebruik:                                                                     | Verwarming van ruimtes in gebouwen                                                                                             |
| 3. | Fabrikant:                                                                          | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. | Gemachtigde vertegenwoordiger                                                       | -                                                                                                                              |
| 5. | Systeem(en) voor beoordeling en verificatie van de bestendigheid van de prestaties: | Systeem 3                                                                                                                      |
| 6. | Geharmoniseerde technische specificaties gebruikt                                   | EN 16510-2-2:2023-06                                                                                                           |
|    | Testrapport nr.                                                                     | 19/15-LG                                                                                                                       |
|    | Aangemelde instantie(s)                                                             | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|    |                                                       |             |
|----|-------------------------------------------------------|-------------|
| 7. | Brandveiligheid                                       | Voldoet aan |
|    | Mechanische sterkte van rookgaskanalen en rookkanalen | Voldoet aan |
|    | Temperatuur van het buitenoppervlak                   | Voldoet aan |
|    | Elektrische veiligheid                                | NPD         |
|    | Vrijgave van gevaarlijke stoffen                      | NPD         |

|                           | Bij nominale warmteafgifte                |      |                   | Bij deellast warmteafgifte                 |     |                   |
|---------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Koolmonoxide-uitstoot     | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Stikstofoxide-uitstoot    | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Koolwaterstoffen-uitstoot | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Uitstoot van fijnstof     | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                      | Bij nominale warmteafgifte |      |     | Bij deellast warmteafgifte |     |     |
|--------------------------------------|----------------------------|------|-----|----------------------------|-----|-----|
| Rookgasafvoertemperatuur             | T <sub>s nom</sub>         | 248  | °C  | T <sub>s part</sub>        | NPD | °C  |
| Minimale schoorsteentrek             | P <sub>nom</sub>           | 12   | Pa  | P <sub>part</sub>          | NPD | Pa  |
| g/s<br>Massastroom van droog rookgas | Φ <sub>f,g nom</sub>       | 16.6 | g/s | Φ <sub>f,g part</sub>      | NPD | g/s |

|                                       | Bij nominale warmteafgifte |     |    | Bij deellast warmteafgifte |     |    |
|---------------------------------------|----------------------------|-----|----|----------------------------|-----|----|
| Warmteafgifte                         | P <sub>nom</sub>           | 17  | kW | P <sub>part</sub>          | NPD | kW |
| Waterwarmteafgifte                    | P <sub>w nom</sub>         | NPD | kW | P <sub>w part</sub>        | NPD | kW |
| Seizoensgebonden verwarmingsrendement | η <sub>nom</sub>           | 80  | %  | η <sub>part</sub>          | NPD | %  |
| Efficiëntie                           |                            |     |    |                            |     |    |

Ražotāja vārdā un vārdā parakstījis:  
Pētniecības un attīstības departamenta vadītājs Silvestrs Kalvinskis

Wsola 2025-11-25

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|                                        |                                                                                                                                                                                                                                                         |                                                                                                                                |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1.                                     | Unikalus produkto tipo identifikavimo kodas:                                                                                                                                                                                                            | MBA/PF                                                                                                                         |
|                                        | Produkto tipas                                                                                                                                                                                                                                          | Tipas BE                                                                                                                       |
| 2.                                     | Paskirtis (-ai):                                                                                                                                                                                                                                        | Pastatų kambarių šildymas                                                                                                      |
| 3.                                     | Gamintojas:                                                                                                                                                                                                                                             | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4.                                     | Įgaliotasis atstovas                                                                                                                                                                                                                                    | -                                                                                                                              |
| 5.                                     | Eksploatacinių savybių pastovumo vertinimo ir tikrinimo sistema (-os):                                                                                                                                                                                  | 3 sistema                                                                                                                      |
| 6.                                     | Naudotos suderintos techninės specifikacijos                                                                                                                                                                                                            | EN 16510-2-2:2023-06                                                                                                           |
|                                        | Bandymo ataskaitos nr.                                                                                                                                                                                                                                  | 19/15-LG                                                                                                                       |
|                                        | Notifikuotoji įstaiga (-os).                                                                                                                                                                                                                            | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |
| 7.                                     | Priešgaisrinė sauga                                                                                                                                                                                                                                     | Atitinka                                                                                                                       |
|                                        | Dūmtakių ortakio ir dūmtraukių mechaninis stiprumas                                                                                                                                                                                                     | Atitinka                                                                                                                       |
|                                        | Išorinio paviršiaus temperatūra                                                                                                                                                                                                                         | Atitinka                                                                                                                       |
|                                        | Elektros sauga                                                                                                                                                                                                                                          | NPD                                                                                                                            |
|                                        | Pavojingų medžiagų išleidimas                                                                                                                                                                                                                           | NPD                                                                                                                            |
| Esant nominaliam šilumos išskleidimui  |                                                                                                                                                                                                                                                         |                                                                                                                                |
|                                        | Anglies monoksido išmetimas                                                                                                                                                                                                                             | CO <sub>nom</sub> (13% O <sub>2</sub> ) 1183 mg/m <sup>3</sup>                                                                 |
|                                        | Azoto oksidų išmetimas                                                                                                                                                                                                                                  | NO <sub>x nom</sub> (13% O <sub>2</sub> ) 133 mg/m <sup>3</sup>                                                                |
|                                        | Angliavandenilių išmetimas                                                                                                                                                                                                                              | OGC <sub>nom</sub> (13% O <sub>2</sub> ) 44 mg/m <sup>3</sup>                                                                  |
|                                        | Kietųjų dalelių išmetimas                                                                                                                                                                                                                               | PM <sub>nom</sub> (13% O <sub>2</sub> ) 35 mg/m <sup>3</sup>                                                                   |
| Esant dalinei apkrovai, šiluminė galia |                                                                                                                                                                                                                                                         |                                                                                                                                |
|                                        | CO <sub>part</sub> (13% O <sub>2</sub> )                                                                                                                                                                                                                | NPD mg/m <sup>3</sup>                                                                                                          |
|                                        | NO <sub>x part</sub> (13% O <sub>2</sub> )                                                                                                                                                                                                              | NPD mg/m <sup>3</sup>                                                                                                          |
|                                        | OGC <sub>part</sub> (13% O <sub>2</sub> )                                                                                                                                                                                                               | NPD mg/m <sup>3</sup>                                                                                                          |
|                                        | PM <sub>part</sub> (13% O <sub>2</sub> )                                                                                                                                                                                                                | NPD mg/m <sup>3</sup>                                                                                                          |
| Esant nominaliam šilumos išskleidimui  |                                                                                                                                                                                                                                                         |                                                                                                                                |
|                                        | Dūmtakio išleidimo angos temperatūra                                                                                                                                                                                                                    | T <sub>snom</sub> 248 °C                                                                                                       |
|                                        | Minimali kamino trauka                                                                                                                                                                                                                                  | P <sub>nom</sub> 12 Pa                                                                                                         |
|                                        | Sausų degių dujų masės srautas                                                                                                                                                                                                                          | Φ <sub>f,g nom</sub> 16.6 g/s                                                                                                  |
| Esant dalinei apkrovai, šiluminė galia |                                                                                                                                                                                                                                                         |                                                                                                                                |
|                                        | T <sub>spart</sub>                                                                                                                                                                                                                                      | NPD °C                                                                                                                         |
|                                        | P <sub>part</sub>                                                                                                                                                                                                                                       | NPD Pa                                                                                                                         |
|                                        | Φ <sub>f,g part</sub>                                                                                                                                                                                                                                   | NPD g/s                                                                                                                        |
| Esant nominaliam šilumos išskleidimui  |                                                                                                                                                                                                                                                         |                                                                                                                                |
|                                        | P <sub>nom</sub>                                                                                                                                                                                                                                        | 17 kW                                                                                                                          |
|                                        | P <sub>wnom</sub>                                                                                                                                                                                                                                       | NPD kW                                                                                                                         |
|                                        | η <sub>nom</sub>                                                                                                                                                                                                                                        | 80 %                                                                                                                           |
|                                        | η <sub>s</sub>                                                                                                                                                                                                                                          | 70 %                                                                                                                           |
|                                        | Energijos vartojimo efektyvumo indeksas                                                                                                                                                                                                                 | EEI 105                                                                                                                        |
|                                        | Energijos vartojimo efektyvumo klasė                                                                                                                                                                                                                    | - A                                                                                                                            |
|                                        | e <sub>l max</sub>                                                                                                                                                                                                                                      | NPD kW                                                                                                                         |
|                                        | e <sub>l SB</sub>                                                                                                                                                                                                                                       | NPD kW                                                                                                                         |
| Esant dalinei apkrovai, šiluminė galia |                                                                                                                                                                                                                                                         |                                                                                                                                |
|                                        | P <sub>part</sub>                                                                                                                                                                                                                                       | NPD kW                                                                                                                         |
|                                        | P <sub>wpart</sub>                                                                                                                                                                                                                                      | NPD kW                                                                                                                         |
|                                        | η <sub>part</sub>                                                                                                                                                                                                                                       | NPD %                                                                                                                          |
|                                        | e <sub>l min</sub>                                                                                                                                                                                                                                      | NPD kW                                                                                                                         |
|                                        | d <sub>R</sub>                                                                                                                                                                                                                                          | 180 mm                                                                                                                         |
|                                        | d <sub>S</sub>                                                                                                                                                                                                                                          | 180 mm                                                                                                                         |
|                                        | d <sub>C</sub>                                                                                                                                                                                                                                          | 800 mm                                                                                                                         |
|                                        | d <sub>P</sub>                                                                                                                                                                                                                                          | 2500 mm                                                                                                                        |
|                                        | d <sub>F</sub>                                                                                                                                                                                                                                          | 1500 mm                                                                                                                        |
|                                        | d <sub>L</sub>                                                                                                                                                                                                                                          | 1500 mm                                                                                                                        |
|                                        | d <sub>B</sub>                                                                                                                                                                                                                                          | 13 mm                                                                                                                          |
|                                        | Aplinkos tvarumas                                                                                                                                                                                                                                       | NPD                                                                                                                            |
|                                        | Pirmiau nurodyto gaminio eksploatacinės savybės atitinka deklaruotų eksploatacinių savybių rinkinį. Ši eksploatacinių savybių deklaracija išduodama vadovaujantis Reglamentu (ES) Nr. 305/2011, prisiimant visą aukščiau nurodyto gamintojo atsakomybę. |                                                                                                                                |

Gamintojo vardu ir vardu pasirašė:  
Tyrimų ir plėtros skyriaus vadovas Sylwester Katwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katwiński*

Wsola 2025-11-25

MBA/PF/V1/2025/DOP

|                                                                   |                                                                                                                                |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Unik identifikationskod för produkttypen:                      | MBA/PF                                                                                                                         |
| Produkttyp                                                        | Typ BE                                                                                                                         |
| 2. Avsedd användning:                                             | Uppvärmning av rum i byggnader                                                                                                 |
| 3. Tillverkare:                                                   | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. Auktoriserad representant                                      | -                                                                                                                              |
| 5. System för bedömning och verifiering av prestandabeständighet: | System 3                                                                                                                       |
| 6. Harmoniserade tekniska specifikationer som används             | EN 16510-2-2:2023-06                                                                                                           |
| Testrapport nr.                                                   | 19/15-LG                                                                                                                       |
| Anmälda organ                                                     | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|                                                       |        |
|-------------------------------------------------------|--------|
| 7. Brandsäkerhet                                      | Följer |
| Mekanisk hållfasthet hos rökgaskanaler och rökkanaler | Följer |
| Yttre temperatur                                      | Följer |
| Elsäkerhet                                            | NPD    |
| Utsläpp av farligt material                           | NPD    |

|                      | Vid nominell värmeeffekt                  |      |                   | Vid dellast värmeeffekt                    |     |                   |
|----------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Kolmonoxidutsläpp    | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Kväveoxidutsläpp     | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Kolväteutsläpp       | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Utsläpp av partiklar | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                              | Vid nominell värmeeffekt |      |     | Vid dellast värmeeffekt |     |     |
|------------------------------|--------------------------|------|-----|-------------------------|-----|-----|
| Temperatur på rökgasutloppet | T <sub>snom</sub>        | 248  | °C  | T <sub>spart</sub>      | NPD | °C  |
| Minsta skorstensdrag         | P <sub>nom</sub>         | 12   | Pa  | P <sub>part</sub>       | NPD | Pa  |
| Torrt bränslegasmassflöde    | Φ <sub>f,g nom</sub>     | 16.6 | g/s | Φ <sub>f,g part</sub>   | NPD | g/s |

|                                        | Vid nominell värmeeffekt |     |    | Vid dellast värmeeffekt |     |     |
|----------------------------------------|--------------------------|-----|----|-------------------------|-----|-----|
| Värmeeffekt                            | P <sub>nom</sub>         | 17  | kW | P <sub>part</sub>       | NPD | kW  |
| Vattenvärmeeffekt                      | P <sub>wnom</sub>        | NPD | kW | P <sub>wpart</sub>      | NPD | kW  |
| Säsongsbunden uppvärmningseffektivitet | η <sub>nom</sub>         | 80  | %  | η <sub>part</sub>       | NPD | %   |
| Effektivitet                           | η <sub>s</sub>           | 70  | %  |                         |     |     |
| Energieffektivitet                     | Energieffektivitetsindex |     |    | EEI                     |     | 105 |
|                                        | Energieffektivitetsklass |     |    | -                       |     | A   |
| Elförbrukning                          | el <sub>max</sub>        | NPD | kW | el <sub>min</sub>       | NPD | kW  |
| Elförbrukning i standbyläge            | el <sub>SB</sub>         | NPD | kW |                         |     |     |

|                                                                                            |                |      |    |
|--------------------------------------------------------------------------------------------|----------------|------|----|
| Minsta avstånd från baksidan till brännbart material                                       | d <sub>R</sub> | 180  | mm |
| Minsta avstånd från sidorna till brännbart material                                        | d <sub>S</sub> | 180  | mm |
| Minsta avstånd från toppen till brännbart material i taket                                 | d <sub>C</sub> | 800  | mm |
| Minsta avstånd från framsidan till brännbart material                                      | d <sub>P</sub> | 2500 | mm |
| Minsta avstånd från framsidan till brännbart material i det nedre främre strålningsområdet | d <sub>F</sub> | 1500 | mm |
| Minsta avstånd från framsidan till brännbart material i sidostrålningsområde               | d <sub>L</sub> | 1500 | mm |
| Minsta avstånd under botten (gäller ej fötter) till brännbart material                     | d <sub>B</sub> | 13   | mm |

|                        |     |
|------------------------|-----|
| Miljömässig hållbarhet | NPD |
|------------------------|-----|

Prestanda för produkten som identifieras ovan är i överensstämmelse med uppsättningen av deklarerade prestanda/er. Denna prestandadeklARATION utfärdas, i enlighet med förordning (EU) nr 305/2011, under ensamt ansvar av tillverkaren som anges ovan.

Signerad för och på uppdrag av tillverkaren av:  
Chef för forsknings- och utvecklingsavdelningen Sylwester Katwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katwiński*

|    |                                                                    |                                                                                                                                |
|----|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. | Enolična identifikacijska koda vrste izdelka:<br>Vrsta izdelka     | MBA/PF<br>Vrsta BE                                                                                                             |
| 2. | Namen uporabe:                                                     | Ogrevanje prostorov v stavbah                                                                                                  |
| 3. | Proizvajalec:                                                      | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. | Pooblaščen zastopnik                                               | -                                                                                                                              |
| 5. | Sistem(-i) ocenjevanja in preverjanja nespremenljivosti delovanja: | Sistem 3                                                                                                                       |
| 6. | Uporabljene usklajene tehnične specifikacije                       | EN 16510-2-2:2023-06                                                                                                           |
|    | Poročilo o preskusu št.                                            | 19/15-LG                                                                                                                       |
|    | Priglašeni organ/-i                                                | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

Požarna varnost  
Mehanska trdnost dimovodnih kanalov in dimnih cevi  
Temperatura zunanje površine  
Električna varnost  
Izpust nevarnih snovi

Ustreza  
Ustreza  
Ustreza  
NPD  
NPD

|                               | Pri nazivni toplotni moči                 |      |                   | Pri delni obremenitvi toplotne moči        |     |                   |
|-------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Emisije ogljikovega monoksida | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Emisije dušikovih oksidov     | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Emisije ogljikovodikov        | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Emisije trdnih delcev         | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                   | Pri nazivni toplotni moči |      |     | Pri delni obremenitvi toplotne moči |     |     |
|-----------------------------------|---------------------------|------|-----|-------------------------------------|-----|-----|
| Temperatura izhoda dimnih plinov  | $T_{\text{snom}}$         | 248  | °C  | $T_{\text{spart}}$                  | NPD | °C  |
| Minimalni vlek dimnika            | $P_{\text{nom}}$          | 12   | Pa  | $P_{\text{part}}$                   | NPD | Pa  |
| Masni pretok suhega dimnega plina | $\Phi_{\text{f,g nom}}$   | 16.6 | g/s | $\Phi_{\text{f,g part}}$            | NPD | g/s |

|                                                     | Pri nazivni toplotni moči       |     |    | Pri delni obremenitvi toplotne moči |     |     |
|-----------------------------------------------------|---------------------------------|-----|----|-------------------------------------|-----|-----|
| Toplotna moč                                        | $P_{nom}$                       | 17  | kW | $P_{part}$                          | NPD | kW  |
| Izhodna toplota vode                                | $P_{wnom}$                      | NPD | kW | $P_{wpart}$                         | NPD | kW  |
| Sezonska učinkovitost ogrevanja                     | $\eta_{nom}$                    | 80  | %  | $\eta_{part}$                       | NPD | %   |
| Učinkovitost                                        | $\eta_s$                        | 70  | %  |                                     |     |     |
| Energetska učinkovitost                             | Indeks energetske učinkovitosti |     |    |                                     | EEl | 105 |
|                                                     | Razred energijske učinkovitosti |     |    |                                     | -   | A   |
| Poraba električne energije                          | $el_{max}$                      | NPD | kW | $el_{min}$                          | NPD | kW  |
| Poraba električne energije v stanju pripravljenosti | $el_{SB}$                       | NPD | kW |                                     |     |     |

|                                                                                                      |       |      |    |
|------------------------------------------------------------------------------------------------------|-------|------|----|
| Najmanjša razdalja od zadnjega dela do vnetljivega materiala                                         | $d_R$ | 180  | mm |
| Najmanjša razdalja od stranic do vnetljivega materiala                                               | $d_S$ | 180  | mm |
| Najmanjša razdalja od vrha do vnetljivega materiala v stropu                                         | $d_C$ | 800  | mm |
| Najmanjša razdalja od sprednje strani do vnetljivega materiala                                       | $d_P$ | 2500 | mm |
| Najmanjše razdalje od sprednje strani do vnetljivega materiala v spodnjem sprednjem območju sevanja  | $d_F$ | 1500 | mm |
| Najmanjše razdalje od sprednje strani do vnetljivega materiala v stranskem sprednjem območju sevanja | $d_L$ | 1500 | mm |
| Najmanjša razdalja pod dnom (brez upoštevanja nog) do vnetljivega materiala                          | $d_B$ | 13   | mm |

|                   |     |
|-------------------|-----|
| Okoljska trajnost | NPD |
|-------------------|-----|

Učinkovitost izdelka, opredeljena zgoraj, je v skladu z naborom deklariranih zmogljivosti. Ta izjava o zmogljivosti je v skladu z Uredbo (EU) št. 305/2011 izdana pod izključno odgovornostjo zgoraj navedenega proizvajalca.

Podpisal za in v imenu proizvajalca:  
Vodja oddelka za raziskave in razvoj Sylwester Kałwiński

Kierownik  
Zespołu Badawczo-Rozwojowego  
*K. Trzask*

MBA/PF/V1/2025/DOP

|                                   |                                                                     |                                                                                                                                |
|-----------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1.                                | Jedinečný identifikačný kód typu produktu:                          | MBA/PF                                                                                                                         |
|                                   | Vrsta izdelka                                                       | Vrsta BE                                                                                                                       |
| 2.                                | Zamýšľané použitie:                                                 | Vykurovanie miestností v budovách                                                                                              |
| 3.                                | Výrobca:                                                            | Kratki.pl Marek Bal, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4.                                | Pooblaščení zastopnik                                               | -                                                                                                                              |
| 5.                                | Systém(y) posudzovania a overovania stálости úžitkových vlastností: | Systém 3                                                                                                                       |
| 6.                                | Uporabljene usklajene tehnične specifikacije                        | EN 16510-2-2:2023-06                                                                                                           |
|                                   | Poročilo o preskusu št.                                             | 19/15-LG                                                                                                                       |
|                                   | Notifikovaný orgán/y                                                | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |
| 7.                                | Požiarna bezpečnosť                                                 | Vyhovuje                                                                                                                       |
|                                   | Mehanska trdnost dimovodnih kanalov in dimnih cevi                  | Vyhovuje                                                                                                                       |
|                                   | Vonkajšia povrchová teplota                                         | Vyhovuje                                                                                                                       |
|                                   | Elektrická bezpečnosť                                               | NPD                                                                                                                            |
|                                   | Uvoľňovanie nebezpečných látok                                      | NPD                                                                                                                            |
|                                   |                                                                     |                                                                                                                                |
|                                   | Pri nazivni toplotni moči                                           | Pri delni obremenitvi toplotne moči                                                                                            |
| Emisije ogljikovega monoksida     | CO <sub>nom</sub> (13% O <sub>2</sub> ) 1183 mg/m <sup>3</sup>      | CO <sub>part</sub> (13% O <sub>2</sub> ) NPD mg/m <sup>3</sup>                                                                 |
| Emisije dušikovih oksidov         | NO <sub>x nom</sub> (13% O <sub>2</sub> ) 133 mg/m <sup>3</sup>     | NO <sub>x part</sub> (13% O <sub>2</sub> ) NPD mg/m <sup>3</sup>                                                               |
| Emisije ogljikovodíkov            | OGC <sub>nom</sub> (13% O <sub>2</sub> ) 44 mg/m <sup>3</sup>       | OGC <sub>part</sub> (13% O <sub>2</sub> ) NPD mg/m <sup>3</sup>                                                                |
| Emisije trdnih delcev             | PM <sub>nom</sub> (13% O <sub>2</sub> ) 35 mg/m <sup>3</sup>        | PM <sub>part</sub> (13% O <sub>2</sub> ) NPD mg/m <sup>3</sup>                                                                 |
|                                   |                                                                     |                                                                                                                                |
|                                   | Pri nazivni toplotni moči                                           | Pri delni obremenitvi toplotne moči                                                                                            |
| Temperatura izhoda dimnih plinov  | T <sub>snom</sub> 248 °C                                            | T <sub>spart</sub> NPD °C                                                                                                      |
| Minimalni vlek dimnika            | P <sub>nom</sub> 12 Pa                                              | P <sub>part</sub> NPD Pa                                                                                                       |
| Masni pretok suhega dimnega plina | Φ <sub>f,g nom</sub> 16.6 g/s                                       | Φ <sub>f,g part</sub> NPD g/s                                                                                                  |
|                                   |                                                                     |                                                                                                                                |
|                                   | Pri nazivni toplotni moči                                           | Pri delni obremenitvi toplotne moči                                                                                            |
| Toplotna moč                      | P <sub>nom</sub> 17 kW                                              | P <sub>part</sub> NPD kW                                                                                                       |
| Izhodna toplota vode              | P <sub>wnom</sub> NPD kW                                            | P <sub>wpart</sub> NPD kW                                                                                                      |
| Sezonska účinkovitost ogrevanja   | η <sub>nom</sub> 80 %                                               | η <sub>part</sub> NPD %                                                                                                        |
| Účinkovitost                      | η <sub>s</sub> 70 %                                                 |                                                                                                                                |
| Energetska účinkovitost           | Indeks energetske účinkovitosti                                     | EEI 105                                                                                                                        |
|                                   | Razred energijske účinkovitosti                                     | - A                                                                                                                            |

MBA/PF/V1/2025/DOP

|                                                                       |                                                                                                                                |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Unik identifikationskode for produkttypen:                         | MBA/PF                                                                                                                         |
| Produkttype                                                           | Type BE                                                                                                                        |
| 2. Tilsigtet anvendelse(r):                                           | Opvarmning af rum i bygninger                                                                                                  |
| 3. Fabrikant:                                                         | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedliński, Polska, 0048483899914, info@kratki.com, www.kratki.com      |
| 4. Autoriseret repræsentant                                           | -                                                                                                                              |
| 5. System(er) til vurdering og verifikation af ydeevnens konstanthed: | System 3                                                                                                                       |
| 6. Harmoniserede tekniske specifikationer anvendt                     | EN 16510-2-2:2023-06                                                                                                           |
| Testrapport nr.                                                       | 19/15-LG                                                                                                                       |
| Bemyndiget organ/er                                                   | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|                                              |            |
|----------------------------------------------|------------|
| 7. Brandsikkerhed                            | Overholder |
| Mekanisk styrke af røggaskanaler og -kanaler | Overholder |
| Udvendig overfladetemperatur                 | Overholder |
| Elektrisk sikkerhed                          | NPD        |
| Frigivelse af farlige materialer             | NPD        |

|                         | Ved nominel varmeydelse                   |      |                   | Ved dellast varmeydelse                    |     |                   |
|-------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Kulilteemissioner       | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Kvælstofoxidemissioner  | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Kulbrinteemissioner     | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Emissioner af partikler | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                         | Ved nominel varmeydelse |      |     | Ved dellast varmeydelse |     |     |
|-----------------------------------------|-------------------------|------|-----|-------------------------|-----|-----|
| Udgangstemperatur for røggas            | T <sub>snom</sub>       | 248  | °C  | T <sub>spart</sub>      | NPD | °C  |
| Mindste skorstenstræk                   | P <sub>nom</sub>        | 12   | Pa  | P <sub>part</sub>       | NPD | Pa  |
| Massestrømningshastighed for tør røggas | Φ <sub>f,g nom</sub>    | 16.6 | g/s | Φ <sub>f,g part</sub>   | NPD | g/s |

|                                      | Ved nominel varmeydelse   |     |    | Ved dellast varmeydelse |     |     |
|--------------------------------------|---------------------------|-----|----|-------------------------|-----|-----|
| Varmeafgivelse                       | P <sub>nom</sub>          | 17  | kW | P <sub>part</sub>       | NPD | kW  |
| Vandvarmeydelse                      | P <sub>wnom</sub>         | NPD | kW | P <sub>wpart</sub>      | NPD | kW  |
| Sæsonbestemt opvarmningseffektivitet | η <sub>nom</sub>          | 80  | %  | η <sub>part</sub>       | NPD | %   |
| Effektivitet                         | η <sub>s</sub>            | 70  | %  |                         |     |     |
| Energieffektivitet                   | Energieffektivitetsindeks |     |    |                         | EEI | 105 |
|                                      | Energieffektivitetsklasse |     |    |                         | -   | A   |
| Elforbrug                            | el <sub>max</sub>         | NPD | kW | el <sub>min</sub>       | NPD | kW  |
| Elforbrug i standbytilstand          | el <sub>SB</sub>          | NPD | kW |                         |     |     |

|                                                                                               |                |      |    |
|-----------------------------------------------------------------------------------------------|----------------|------|----|
| Minimumsafstand fra bagsiden til brandbart materiale                                          | d <sub>R</sub> | 180  | mm |
| Minimumsafstand fra siderne til brændbart materiale                                           | d <sub>S</sub> | 180  | mm |
| Minimumsafstand fra toppen til brændbart materiale i loftet                                   | d <sub>C</sub> | 800  | mm |
| Minimumsafstand fra forsiden til brændbart materiale                                          | d <sub>P</sub> | 2500 | mm |
| Minimumsafstande fra fronten til brændbart materiale i det nederste, forreste strålingsområde | d <sub>F</sub> | 1500 | mm |
| Minimumsafstande fra fronten til brændbart materiale i sidefrontstrålingsområdet              | d <sub>L</sub> | 1500 | mm |
| Minimumsafstand under bunden (ikke med hensyn til fødder) til brandbart materiale             | d <sub>B</sub> | 13   | mm |

|                                                                                                                                                                                                                                                          |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Miljømæssig bæredygtighed                                                                                                                                                                                                                                | NPD |
| Ydeevnen af det ovenfor identificerede produkt er i overensstemmelse med sættet af deklarerede ydeevne(r). Denne ydeevnedeklaration er udstedt i overensstemmelse med forordning (EU) nr. 305/2011 på eneansvar af den ovenfor identificerede fabrikant. |     |

Underskrevet for og på vegne af producenten af:  
Leder af forsknings- og udviklingsafdelingen Sylwester Kałwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Kałwiński*

|    |                                                        |                                                                                                                                |
|----|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. | Jedinstveni identifikacijski kod vrste proizvoda:      | MBA/PF                                                                                                                         |
|    | Vrsta proizvoda                                        | Tip BE                                                                                                                         |
| 2. | Namjena(e):                                            | Grijanje prostorija u zgradama                                                                                                 |
| 3. | Proizvođač:                                            | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. | Ovlašteni predstavnik                                  | -                                                                                                                              |
| 5. | Sustav(i) ocjenjivanja i provjere stalnosti svojstava: | Sustav 3                                                                                                                       |
| 6. | Korištene usklađene tehničke specifikacije             | EN 16510-2-2:2023-06                                                                                                           |
|    | Izvešće o ispitivanju br.                              | 19/15-LG                                                                                                                       |
|    | Prijavljeno tijelo/a                                   | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|    |                                                 |          |
|----|-------------------------------------------------|----------|
| 7. | Sigurnost od požara                             | Sukladno |
|    | Mehanička čvrstoća dimovodnih kanala i dimnjaka | Sukladno |
|    | Temperatura vanjske površine                    | Sukladno |
|    | Električna sigurnost                            | NPD      |
|    | Ispuštanje opasnih materijala                   | NPD      |

|                             | Pri nominalnom toplinskom učinku          |      |                   | Pri djelomičnom opterećenju toplinskog izlaza |     |                   |
|-----------------------------|-------------------------------------------|------|-------------------|-----------------------------------------------|-----|-------------------|
| Emisije ugljičnog monoksida | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )      | NPD | mg/m <sup>3</sup> |
| Emisije dušikovih oksida    | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> )    | NPD | mg/m <sup>3</sup> |
| Emisije ugljikovodika       | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )     | NPD | mg/m <sup>3</sup> |
| Emisije čestica             | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )      | NPD | mg/m <sup>3</sup> |

|                                   |                                  |      |     |                                               |     |     |
|-----------------------------------|----------------------------------|------|-----|-----------------------------------------------|-----|-----|
|                                   | Pri nominalnom toplinskom učinku |      |     | Pri djelomičnom opterećenju toplinskog izlaza |     |     |
| Temperatura izlaza dimnih plinova | T <sub>snom</sub>                | 248  | °C  | T <sub>spart</sub>                            | NPD | °C  |
| Minimalni dimnjak potisak         | P <sub>nom</sub>                 | 12   | Pa  | P <sub>part</sub>                             | NPD | Pa  |
| Maseni protok suhog plina         | Φ <sub>f,g nom</sub>             | 16.6 | g/s | Φ <sub>f,g part</sub>                         | NPD | g/s |

|                                                     | Pri nominalnom toplinskom učinku |     |    | Pri djelomičnom opterećenju toplinskog izlaza |     |     |
|-----------------------------------------------------|----------------------------------|-----|----|-----------------------------------------------|-----|-----|
| Toplinski izlaz                                     | $P_{nom}$                        | 17  | kW | $P_{part}$                                    | NPD | kW  |
| Toplinska snaga vode                                | $P_{wnom}$                       | NPD | kW | $P_{wpart}$                                   | NPD | kW  |
| Sezonska učinkovitost grijanja                      | $\eta_{nom}$                     | 80  | %  | $\eta_{part}$                                 | NPD | %   |
| Učinkovitost                                        | $\eta_s$                         | 70  | %  |                                               |     |     |
| Energetska učinkovitost                             | Indeks energetske učinkovitosti  |     |    |                                               | EEI | 105 |
|                                                     | Razred energetske učinkovitosti  |     |    |                                               | -   | A   |
| Potrošnja električne energije                       | $el_{max}$                       | NPD | kW | $el_{min}$                                    | NPD | kW  |
| Potrošnja električne energije u stanju pripravnosti | $el_{SB}$                        | NPD | kW |                                               |     |     |

|                                                                                                      |       |      |    |
|------------------------------------------------------------------------------------------------------|-------|------|----|
| Minimalna udaljenost od stražnjeg dijela do zapaljivog materijala                                    | $d_R$ | 180  | mm |
| Minimalna udaljenost od stranica do zapaljivog materijala                                            | $d_S$ | 180  | mm |
| Minimalna udaljenost od vrha do zapaljivog materijala u stropu                                       | $d_C$ | 800  | mm |
| Minimalna udaljenost od prednje strane do zapaljivog materijala                                      | $d_P$ | 2500 | mm |
| Minimalne udaljenosti od prednje strane do zapaljivog materijala u donjem prednjem području zračenja | $d_F$ | 1500 | mm |
| Minimalne udaljenosti od prednje strane do zapaljivog materijala u bočnom prednjem području zračenja | $d_L$ | 1500 | mm |
| Minimalna udaljenost ispod dna (ne uzimajući u obzir stopala) od zapaljivog materijala               | $d_B$ | 13   | mm |

|                                                                                                                                                                                                                                  |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Održivost okoliša                                                                                                                                                                                                                | NPD |
| <p>Učinak proizvoda koji je gore identificiran u skladu je sa skupom deklariranih učinaka. Ova izjava o svojstvima izdana je, u skladu s Uredbom (EU) br. 305/2011, pod isključivom odgovornošću gore navedenog proizvođača.</p> |     |

Potpisao za i u ime proizvođača:  
Voditelj odjela za istraživanje i razvoj Sylwester Kałwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katarzyna*

MBA/PF/V1/2025/DOP

|    |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|-------------------|--------------------------------------------|------|-------------------|
| 1. | Tootetüübi unikaalne identifitseerimiskood:                                                                                                                                     | MBA/PF                                                                                                                         |      |                   |                                            |      |                   |
|    | Toote tüüp                                                                                                                                                                      | Tüüp                                                                                                                           | BE   |                   |                                            |      |                   |
| 2. | Kasutusotstarve(d):                                                                                                                                                             | Hoonete ruumide kütmine                                                                                                        |      |                   |                                            |      |                   |
| 3. | Tootja:                                                                                                                                                                         | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |      |                   |                                            |      |                   |
| 4. | Volitatud esindaja                                                                                                                                                              | -                                                                                                                              |      |                   |                                            |      |                   |
| 5. | Toimivuse püsivuse hindamise ja kontrollimise süsteem(id):                                                                                                                      | Süsteem 3                                                                                                                      |      |                   |                                            |      |                   |
| 6. | Kasutatud ühtlustatud tehnilised kirjeldused                                                                                                                                    | EN 16510-2-2:2023-06                                                                                                           |      |                   |                                            |      |                   |
|    | Katsearuande nr.                                                                                                                                                                | 19/15-LG                                                                                                                       |      |                   |                                            |      |                   |
|    | Teavitatud asutus/asutused                                                                                                                                                      | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |      |                   |                                            |      |                   |
| 7. |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|    | Tuleohutus                                                                                                                                                                      | Vastab                                                                                                                         |      |                   |                                            |      |                   |
|    | Suitsugaasikanalite ja lõõride mehaaniline tugevus                                                                                                                              | Vastab                                                                                                                         |      |                   |                                            |      |                   |
|    | Välispinna temperatuur                                                                                                                                                          | Vastab                                                                                                                         |      |                   |                                            |      |                   |
|    | Elektriohutus                                                                                                                                                                   | NPD                                                                                                                            |      |                   |                                            |      |                   |
|    | Ohtlike materjalide eraldumine                                                                                                                                                  | NPD                                                                                                                            |      |                   |                                            |      |                   |
|    |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|    |                                                                                                                                                                                 | Nimisoojusvõimsusel                                                                                                            |      |                   | Osalise koormuse korral soojusvõimsus      |      |                   |
|    | Süsinikmonooksiidi heitkogused                                                                                                                                                  | CO <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD  | mg/m <sup>3</sup> |
|    | Lämmastikoksiidide heitkogused                                                                                                                                                  | NO <sub>x nom</sub> (13% O <sub>2</sub> )                                                                                      | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD  | mg/m <sup>3</sup> |
|    | Süivesinike heitkogused                                                                                                                                                         | OGC <sub>nom</sub> (13% O <sub>2</sub> )                                                                                       | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD  | mg/m <sup>3</sup> |
|    | Tahkete osakeste heitkogused                                                                                                                                                    | PM <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD  | mg/m <sup>3</sup> |
|    |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|    |                                                                                                                                                                                 | Nimisoojusvõimsusel                                                                                                            |      |                   | Osalise koormuse korral soojusvõimsus      |      |                   |
|    | Suitsugaasi väljalasketemperatuur                                                                                                                                               | T <sub>snom</sub>                                                                                                              | 248  | °C                | T <sub>spart</sub>                         | NPD  | °C                |
|    | Minimaalne korstnatõmme                                                                                                                                                         | P <sub>nom</sub>                                                                                                               | 12   | Pa                | P <sub>part</sub>                          | NPD  | Pa                |
|    | Kuiva kütusegaasi massivoolukiirus                                                                                                                                              | Φ <sub>f,g nom</sub>                                                                                                           | 16.6 | g/s               | Φ <sub>f,g part</sub>                      | NPD  | g/s               |
|    |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|    |                                                                                                                                                                                 | Nimisoojusvõimsusel                                                                                                            |      |                   | Osalise koormuse korral soojusvõimsus      |      |                   |
|    | Soojusvõimsus                                                                                                                                                                   | P <sub>nom</sub>                                                                                                               | 17   | kW                | P <sub>part</sub>                          | NPD  | kW                |
|    | Vee soojusvõimsus                                                                                                                                                               | P <sub>wnom</sub>                                                                                                              | NPD  | kW                | P <sub>wpart</sub>                         | NPD  | kW                |
|    | Hooajaline küttetõhusus                                                                                                                                                         | η <sub>nom</sub>                                                                                                               | 80   | %                 | η <sub>part</sub>                          | NPD  | %                 |
|    | Tõhusus                                                                                                                                                                         | η <sub>s</sub>                                                                                                                 | 70   | %                 |                                            |      |                   |
|    | Energia tõhusus                                                                                                                                                                 | Energia tõhususe indeks                                                                                                        |      |                   |                                            | EEl  | 105               |
|    |                                                                                                                                                                                 | Energia tõhususe klass                                                                                                         |      |                   |                                            | -    | A                 |
|    | Elektrienergia tarbimine                                                                                                                                                        | e <sub>l,max</sub>                                                                                                             | NPD  | kW                | e <sub>l,min</sub>                         | NPD  | kW                |
|    | Elektrienergia tarbimine ooterežiimis                                                                                                                                           | e <sub>l,sB</sub>                                                                                                              | NPD  | kW                |                                            |      |                   |
|    |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|    | Minimaalne kaugus tagant süttiva materjalini                                                                                                                                    |                                                                                                                                |      |                   | d <sub>R</sub>                             | 180  | mm                |
|    | Minimaalne kaugus külgedelt põleva materjalini                                                                                                                                  |                                                                                                                                |      |                   | d <sub>S</sub>                             | 180  | mm                |
|    | Minimaalne kaugus laes olevast põlevast materjalist ülevalt                                                                                                                     |                                                                                                                                |      |                   | d <sub>C</sub>                             | 800  | mm                |
|    | Minimaalne kaugus esiosast põleva materjalini                                                                                                                                   |                                                                                                                                |      |                   | d <sub>P</sub>                             | 2500 | mm                |
|    | Minimaalsed kaugused esiosast põleva materjalini alumises esikiirgusalas                                                                                                        |                                                                                                                                |      |                   | d <sub>F</sub>                             | 1500 | mm                |
|    | Minimaalsed kaugused esiosast põleva materjalini külgmises esikiirgusalas                                                                                                       |                                                                                                                                |      |                   | d <sub>L</sub>                             | 1500 | mm                |
|    | Minimaalne kaugus põhjast (jalgu arvestamata) süttiva materjalini                                                                                                               |                                                                                                                                |      |                   | d <sub>B</sub>                             | 13   | mm                |
|    |                                                                                                                                                                                 |                                                                                                                                |      |                   |                                            |      |                   |
|    | Keskkonnasäästlikkus                                                                                                                                                            | NPD                                                                                                                            |      |                   |                                            |      |                   |
|    | Ülaltoodud toote toimivus vastab deklareeritud toimivus(te)le. See toimivusdeklaratsioon antakse välja vastavalt määrusele (EL) nr 305/2011 üldnimetatud tootja ainuvastutusel. |                                                                                                                                |      |                   |                                            |      |                   |

Tootja nimel ja nimel allkirjastas:  
Teadus- ja arendusosakonna juhataja Sylwester Kałwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katrinke!*

MBA/PF/V1/2025/DOP

|                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|-------------------|--------------------------------------------|-----------------------|--|
| 1.                                                                                                                                                                                                                                                                  | Kodiċi ta' identifikazzjoni uniku tat-tip ta' prodott:                                                | MBA/PF                                                                                                                         |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Tip ta' prodott                                                                                       | Tip                                                                                                                            | BE   |                   |                                            |                       |  |
| 2.                                                                                                                                                                                                                                                                  | Użu(i) intenzjonat(i):                                                                                |                                                                                                                                |      |                   |                                            |                       |  |
| 3.                                                                                                                                                                                                                                                                  | Manifattur:                                                                                           | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |      |                   |                                            |                       |  |
| 4.                                                                                                                                                                                                                                                                  | Rappreżentant awtorizzat                                                                              | -                                                                                                                              |      |                   |                                            |                       |  |
| 5.                                                                                                                                                                                                                                                                  | Sistema(i) ta' valutazzjoni u verifika tal-kostanza tal-prestazzjoni:                                 | Sistema 3                                                                                                                      |      |                   |                                            |                       |  |
| 6.                                                                                                                                                                                                                                                                  | Speċifikazzjonijiet tekniċi armonizzati użati                                                         | EN 16510-2-2:2023-06                                                                                                           |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Rapport tat-test nru.                                                                                 | 19/15-LG                                                                                                                       |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Korp/i notifikati                                                                                     | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |      |                   |                                            |                       |  |
| 7.                                                                                                                                                                                                                                                                  |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Sigurtà tan-nar                                                                                       | Jikkonforma                                                                                                                    |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Saħħa mekkanika tal-kanali u l-kanali tal-gass taċ-ċumnija                                            | Jikkonforma                                                                                                                    |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Temperatura esterna tal-wiċċ                                                                          | Jikkonforma                                                                                                                    |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Sigurtà elettrika                                                                                     | NPD                                                                                                                            |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Rilaxx ta' materjali perikolużi                                                                       | NPD                                                                                                                            |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       | Fil-produzzjoni tas-sħana nominali                                                                                             |      |                   | Hruġ tas-sħana b'tagħbija parzjali         |                       |  |
|                                                                                                                                                                                                                                                                     | Emissjonijiet ta' monossidu tal-karbonju                                                              | CO <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD mg/m <sup>3</sup> |  |
|                                                                                                                                                                                                                                                                     | Emissjonijiet ta' ossidi tan-nitroġenu                                                                | NO <sub>x nom</sub> (13% O <sub>2</sub> )                                                                                      | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD mg/m <sup>3</sup> |  |
|                                                                                                                                                                                                                                                                     | Emissjonijiet ta' idrokarburi                                                                         | OGC <sub>nom</sub> (13% O <sub>2</sub> )                                                                                       | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD mg/m <sup>3</sup> |  |
|                                                                                                                                                                                                                                                                     | Emissjonijiet ta' materja partikulata                                                                 | PM <sub>nom</sub> (13% O <sub>2</sub> )                                                                                        | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD mg/m <sup>3</sup> |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       | Fil-produzzjoni tas-sħana nominali                                                                                             |      |                   | Hruġ tas-sħana b'tagħbija parzjali         |                       |  |
|                                                                                                                                                                                                                                                                     | Temperatura tal-hruġ tal-gass tad-duħħan                                                              | T <sub>snom</sub>                                                                                                              | 248  | °C                | T <sub>s part</sub>                        | NPD °C                |  |
|                                                                                                                                                                                                                                                                     | Trakk tal-kamin minimu                                                                                | P <sub>nom</sub>                                                                                                               | 12   | Pa                | P <sub>part</sub>                          | NPD Pa                |  |
|                                                                                                                                                                                                                                                                     | Rata tal-fluss tal-massa tal-gass tal-fjuwil niexef                                                   | Φ <sub>f,g nom</sub>                                                                                                           | 16.6 | g/s               | Φ <sub>f,g part</sub>                      | NPD g/s               |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       | Fil-produzzjoni tas-sħana nominali                                                                                             |      |                   | Hruġ tas-sħana b'tagħbija parzjali         |                       |  |
|                                                                                                                                                                                                                                                                     | Produzzjoni tas-sħana                                                                                 | P <sub>nom</sub>                                                                                                               | 17   | kW                | P <sub>part</sub>                          | NPD kW                |  |
|                                                                                                                                                                                                                                                                     | Produzzjoni tas-sħana tal-ilma                                                                        | P <sub>wnom</sub>                                                                                                              | NPD  | kW                | P <sub>w part</sub>                        | NPD kW                |  |
|                                                                                                                                                                                                                                                                     | Effiċjenza tat-tishin stagjonali                                                                      | η <sub>nom</sub>                                                                                                               | 80   | %                 | η <sub>part</sub>                          | NPD %                 |  |
|                                                                                                                                                                                                                                                                     | Effiċjenza                                                                                            | η <sub>s</sub>                                                                                                                 | 70   | %                 |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Effiċjenza fl-enerġija                                                                                | Indiċi tal-Effiċjenza Enerġetika                                                                                               |      |                   | EEI                                        | 105                   |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       | Klassi tal-effiċjenza enerġetika                                                                                               |      |                   | -                                          | A                     |  |
|                                                                                                                                                                                                                                                                     | Konsum tal-elettriku                                                                                  | e <sub>l max</sub>                                                                                                             | NPD  | kW                | e <sub>l min</sub>                         | NPD kW                |  |
|                                                                                                                                                                                                                                                                     | Konsum tal-elettriku fil-modalità standby                                                             | e <sub>l SB</sub>                                                                                                              | NPD  | kW                |                                            |                       |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Distanza minima minn wara għal materjal kombustibbli                                                  |                                                                                                                                |      |                   | d <sub>R</sub>                             | 180 mm                |  |
|                                                                                                                                                                                                                                                                     | Distanza minima mill-ġnub għall-materjal kombustibbli                                                 |                                                                                                                                |      |                   | d <sub>S</sub>                             | 180 mm                |  |
|                                                                                                                                                                                                                                                                     | Distanza minima minn fuq sal-materjal kombustibbli fis-saqaf                                          |                                                                                                                                |      |                   | d <sub>C</sub>                             | 800 mm                |  |
|                                                                                                                                                                                                                                                                     | Distanza minima minn quddiem għal materjal kombustibbli                                               |                                                                                                                                |      |                   | d <sub>P</sub>                             | 2500 mm               |  |
|                                                                                                                                                                                                                                                                     | Distanzi minimi minn quddiem għal materjal kombustibbli fiż-żona tar-radjazzjoni ta' quddiem t'isfel  |                                                                                                                                |      |                   | d <sub>F</sub>                             | 1500 mm               |  |
|                                                                                                                                                                                                                                                                     | Distanzi minimi minn quddiem għal materjal kombustibbli fiż-żona tar-radjazzjoni ta' quddiem tal-ġenb |                                                                                                                                |      |                   | d <sub>L</sub>                             | 1500 mm               |  |
|                                                                                                                                                                                                                                                                     | Distanza minima taħt il-qiegħ (mingħajr ma tirrigwarda s-saqajn) għal materjal kombustibbli           |                                                                                                                                |      |                   | d <sub>B</sub>                             | 13 mm                 |  |
|                                                                                                                                                                                                                                                                     |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |
|                                                                                                                                                                                                                                                                     | Sostenibbiltà ambjentali                                                                              | NPD                                                                                                                            |      |                   |                                            |                       |  |
| Il-prestazzjoni tal-prodott identifikat hawn fuq hija konformi mas-sett ta' prestazzjoni/jiet iddikjarati. Din id-dikjarazzjoni ta' prestazzjoni tinħareġ, skont ir-Regolament (UE) Nru 305/2011, taħt ir-responsabbiltà unika tal-manifattur identifikat hawn fuq. |                                                                                                       |                                                                                                                                |      |                   |                                            |                       |  |

Iffirmat għal u f'isem il-manifattur minn:

Kap tad-dipartiment tar-riċerka u l-iżvilupp Sylwester Kałwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Kałwiński*

|    |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------|-----------------------|
| 1. | Cód aitheantais uathúil den chineál táirge:                                                                                                                                                                                                                       | MBA/PF                                                                                                                         |                   |                                            |                       |
|    | Cineál táirge                                                                                                                                                                                                                                                     | Cineál                                                                                                                         |                   | BE                                         |                       |
| 2. | Úsáid(i) atá beartaithe:                                                                                                                                                                                                                                          | Téamh seomraí i bhfoirgnimh                                                                                                    |                   |                                            |                       |
| 3. | Monaróir:                                                                                                                                                                                                                                                         | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |                   |                                            |                       |
| 4. | Ionadaí údaraithe                                                                                                                                                                                                                                                 | -                                                                                                                              |                   |                                            |                       |
| 5. | Córas/córais measúnaithe agus fóraithe ar sheasmhacht feidhmíochta:                                                                                                                                                                                               | Córas 3                                                                                                                        |                   |                                            |                       |
| 6. | Sonraíochtaí teicniúla comhchuibhithe a úsáideadh                                                                                                                                                                                                                 | EN 16510-2-2:2023-06                                                                                                           |                   |                                            |                       |
|    | Tuarascáil tástála uimh.                                                                                                                                                                                                                                          | 19/15-LG                                                                                                                       |                   |                                            |                       |
|    | Comhlachtaí dá dtugtar fógra                                                                                                                                                                                                                                      | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |                   |                                            |                       |
| 7. |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|    | Sábháilteacht dóiteáin                                                                                                                                                                                                                                            | Comhlíonann                                                                                                                    |                   |                                            |                       |
|    | Nearrt meicniúil ductanna agus simléir gáis sceite                                                                                                                                                                                                                | Comhlíonann                                                                                                                    |                   |                                            |                       |
|    | Teocht dromchla seachtrach                                                                                                                                                                                                                                        | Comhlíonann                                                                                                                    |                   |                                            |                       |
|    | Sábháilteacht leictreach                                                                                                                                                                                                                                          | NPD                                                                                                                            |                   |                                            |                       |
|    | Scaoileadh ábhar guaiseach                                                                                                                                                                                                                                        | NPD                                                                                                                            |                   |                                            |                       |
|    |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|    |                                                                                                                                                                                                                                                                   | Ag aschur teasa ainmniúil                                                                                                      |                   | Aschur teasa ag ualaigh pháirtigh          |                       |
|    | Astaíochtaí monocsíd charbóin                                                                                                                                                                                                                                     | CO <sub>nom</sub> (13% O <sub>2</sub> ) 1183                                                                                   | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD mg/m <sup>3</sup> |
|    | Astaíochtaí ocsaídí nítrigine                                                                                                                                                                                                                                     | NO <sub>x nom</sub> (13% O <sub>2</sub> ) 133                                                                                  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD mg/m <sup>3</sup> |
|    | Astaíochtaí hidreacarbón                                                                                                                                                                                                                                          | OGC <sub>nom</sub> (13% O <sub>2</sub> ) 44                                                                                    | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD mg/m <sup>3</sup> |
|    | Astaíochtaí ábhair cháithníníneacha                                                                                                                                                                                                                               | PM <sub>nom</sub> (13% O <sub>2</sub> ) 35                                                                                     | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD mg/m <sup>3</sup> |
|    |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|    |                                                                                                                                                                                                                                                                   | Ag aschur teasa ainmniúil                                                                                                      |                   | Aschur teasa ag ualaigh pháirtigh          |                       |
|    | Teocht aschuir gháis deataigh                                                                                                                                                                                                                                     | T <sub>snom</sub> 248                                                                                                          | °C                | T <sub>spart</sub>                         | NPD °C                |
|    | Tarraingt íosta simléir                                                                                                                                                                                                                                           | P <sub>nom</sub> 12                                                                                                            | Pa                | P <sub>part</sub>                          | NPD Pa                |
|    | Ráta sreafa maise gáis bhreosla thirim                                                                                                                                                                                                                            | Φ <sub>f,g nom</sub> 16.6                                                                                                      | g/s               | Φ <sub>f,g part</sub>                      | NPD g/s               |
|    |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|    |                                                                                                                                                                                                                                                                   | Ag aschur teasa ainmniúil                                                                                                      |                   | Aschur teasa ag ualaigh pháirtigh          |                       |
|    | Aschur teasa                                                                                                                                                                                                                                                      | P <sub>nom</sub> 17                                                                                                            | kW                | P <sub>part</sub>                          | NPD kW                |
|    | Aschur teasa uisce                                                                                                                                                                                                                                                | P <sub>wnom</sub> NPD                                                                                                          | kW                | P <sub>wpart</sub>                         | NPD kW                |
|    | Éifeachtúlacht téimh shéasúrach                                                                                                                                                                                                                                   | η <sub>nom</sub> 80                                                                                                            | %                 | η <sub>part</sub>                          | NPD %                 |
|    | Éifeachtúlacht                                                                                                                                                                                                                                                    | η <sub>s</sub> 70                                                                                                              | %                 |                                            |                       |
|    | Éifeachtúlacht fuinnimh                                                                                                                                                                                                                                           | Innéacs Éifeachtúlachta Fuinnimh                                                                                               |                   |                                            | EEI 105               |
|    |                                                                                                                                                                                                                                                                   | Aicme éifeachtúlachta fuinnimh                                                                                                 |                   |                                            | - A                   |
|    | Tomhaltas leictreachais                                                                                                                                                                                                                                           | e <sub>l max</sub> NPD                                                                                                         | kW                | e <sub>l min</sub>                         | NPD kW                |
|    | Tomhaltas leictreachais i mód fuireachais                                                                                                                                                                                                                         | e <sub>l SB</sub> NPD                                                                                                          | kW                |                                            |                       |
|    |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|    | Fad íosta ón gcúl go dtí ábhar inadhainte                                                                                                                                                                                                                         |                                                                                                                                |                   | d <sub>R</sub>                             | 180 mm                |
|    | An fad íosta ó na taobhanna go dtí ábhar inadhainte                                                                                                                                                                                                               |                                                                                                                                |                   | d <sub>S</sub>                             | 180 mm                |
|    | An fad íosta ón mbarr go dtí ábhar inadhainte sa tsíleáil                                                                                                                                                                                                         |                                                                                                                                |                   | d <sub>C</sub>                             | 800 mm                |
|    | An fad íosta ón tosaigh go dtí ábhar inadhainte                                                                                                                                                                                                                   |                                                                                                                                |                   | d <sub>P</sub>                             | 2500 mm               |
|    | Fad íosta ón tosaigh go dtí ábhar inadhainte sa limistéar radaíochta bun tosaigh                                                                                                                                                                                  |                                                                                                                                |                   | d <sub>F</sub>                             | 1500 mm               |
|    | Fad íosta ón tosaigh go dtí ábhar inadhainte sa limistéar radaíochta taobh tosaigh                                                                                                                                                                                |                                                                                                                                |                   | d <sub>L</sub>                             | 1500 mm               |
|    | An fad íosta faoin mbun (gan na cosa a áireamh) go dtí ábhar inadhainte                                                                                                                                                                                           |                                                                                                                                |                   | d <sub>B</sub>                             | 13 mm                 |
|    |                                                                                                                                                                                                                                                                   |                                                                                                                                |                   |                                            |                       |
|    | Inbhuanaitheacht chomhshaoil                                                                                                                                                                                                                                      | NPD                                                                                                                            |                   |                                            |                       |
|    | Tá feidhmíocht an táirge a shainaitheann tuas i gcomhréir leis an tacar feidhmíochta/na feidhmíochtaí dearbhaithe. Eisítear an dearbhú feidhmíochta seo, i gcomhréir le Rialachán (AE) Uimh. 305/2011, faoi fhreagracht aonair an mhonaróra a shainaitheann tuas. |                                                                                                                                |                   |                                            |                       |

Kierownik  
Zespołu Badawczo-Rozwojowego  
*Katarzyna*

MBA/PF/V1/2025/DOP

|                                                                       |                                                                                                                                |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1. Código de identificação único do tipo de produto:                  | MBA/PF                                                                                                                         |
| Tipo de produto                                                       | Tipo BE                                                                                                                        |
| 2. Utilização(ões) pretendida(s):                                     | Aquecimento de salas em edifícios                                                                                              |
| 3. Fabricante:                                                        | Kratki.pl Marek Bał, Wsola ul. W. Gombrowicza 4, 26-660 Jedlińsk, Polska, 0048483899914, info@kratki.com, www.kratki.com       |
| 4. Representante autorizado                                           | -                                                                                                                              |
| 5. Sistema(s) de avaliação e verificação da constância do desempenho: | Sistema 3                                                                                                                      |
| 6. Especificações técnicas harmonizadas utilizadas                    | EN 16510-2-2:2023-06                                                                                                           |
| Número do relatório de ensaio                                         | 19/15-LG                                                                                                                       |
| Organismo(s) notificado(s)                                            | 1452 - INSTYTUT ENERGETYKI, ul. Mory 8, 01-330 Warszawa, Polska, 0048223451200, instytut.energetyki@ien.com.pl, www.ien.com.pl |

|                                                                    |        |
|--------------------------------------------------------------------|--------|
| 7. Segurança contra incêndio                                       | Cumpre |
| Resistência mecânica das condutas e chaminés de gases de combustão | Cumpre |
| Temperatura da superfície exterior                                 | Cumpre |
| Segurança elétrica                                                 | NPD    |
| Libertação de materiais perigosos                                  | NPD    |

|                                  | Com potência térmica nominal              |      |                   | Com potência térmica de carga parcial      |     |                   |
|----------------------------------|-------------------------------------------|------|-------------------|--------------------------------------------|-----|-------------------|
| Emissões de monóxido de carbono  | CO <sub>nom</sub> (13% O <sub>2</sub> )   | 1183 | mg/m <sup>3</sup> | CO <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |
| Emissões de óxidos de azoto      | NO <sub>x nom</sub> (13% O <sub>2</sub> ) | 133  | mg/m <sup>3</sup> | NO <sub>x part</sub> (13% O <sub>2</sub> ) | NPD | mg/m <sup>3</sup> |
| Emissões de hidrocarbonetos      | OGC <sub>nom</sub> (13% O <sub>2</sub> )  | 44   | mg/m <sup>3</sup> | OGC <sub>part</sub> (13% O <sub>2</sub> )  | NPD | mg/m <sup>3</sup> |
| Emissões de material particulado | PM <sub>nom</sub> (13% O <sub>2</sub> )   | 35   | mg/m <sup>3</sup> | PM <sub>part</sub> (13% O <sub>2</sub> )   | NPD | mg/m <sup>3</sup> |

|                                             | Com potência térmica nominal |      |     | Com potência térmica de carga parcial |     |     |
|---------------------------------------------|------------------------------|------|-----|---------------------------------------|-----|-----|
| Temperatura de saída dos gases de combustão | T <sub>snom</sub>            | 248  | °C  | T <sub>spart</sub>                    | NPD | °C  |
| Depressão mínima da chaminé                 | P <sub>nom</sub>             | 12   | Pa  | P <sub>part</sub>                     | NPD | Pa  |
| Caudal mássico de gases de combustão secos  | Φ <sub>f,g nom</sub>         | 16.6 | g/s | Φ <sub>f,g part</sub>                 | NPD | g/s |

|                                         | Com potência térmica nominal    |     |    | Com potência térmica de carga parcial |     |     |
|-----------------------------------------|---------------------------------|-----|----|---------------------------------------|-----|-----|
| Potência térmica                        | P <sub>nom</sub>                | 17  | kW | P <sub>part</sub>                     | NPD | kW  |
| Potência térmica da água                | P <sub>wnom</sub>               | NPD | kW | P <sub>wpart</sub>                    | NPD | kW  |
| Eficiência de aquecimento sazonal       | η <sub>nom</sub>                | 80  | %  | η <sub>part</sub>                     | NPD | %   |
| Eficiência                              | η <sub>s</sub>                  | 70  | %  |                                       |     |     |
| Eficiência energética                   | Índice de Eficiência Energética |     |    |                                       | EEI | 105 |
|                                         | Classe de eficiência energética |     |    |                                       | -   | A   |
| Electricity consumption                 | el <sub>max</sub>               | NPD | kW | el <sub>min</sub>                     | NPD | kW  |
| Electricity consumption in standby mode | el <sub>SB</sub>                | NPD | kW |                                       |     |     |

|                                                                                           |                |      |    |
|-------------------------------------------------------------------------------------------|----------------|------|----|
| Distância mínima da parte traseira ao material combustível                                | d <sub>R</sub> | 180  | mm |
| Distância mínima das laterais ao material combustível                                     | d <sub>S</sub> | 180  | mm |
| Distância mínima do topo ao material combustível no teto                                  | d <sub>C</sub> | 800  | mm |
| Distância mínima da frente ao material combustível                                        | d <sub>P</sub> | 2500 | mm |
| Distâncias mínimas da frente ao material combustível na zona de radiação frontal inferior | d <sub>F</sub> | 1500 | mm |
| Distâncias mínimas da frente ao material combustível na zona de radiação frontal lateral  | d <sub>L</sub> | 1500 | mm |
| Distância mínima abaixo da base (sem considerar os pés) ao material combustível           | d <sub>B</sub> | 13   | mm |

|                                                                                                                                                                                                                                                                                |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Sustentabilidade ambiental                                                                                                                                                                                                                                                     | NPD |
| O desempenho do produto acima identificado está em conformidade com o conjunto de desempenho(s) declarado(s). A presente declaração de desempenho é emitida, de acordo com o Regulamento (UE) n.º 305/2011, sob a exclusiva responsabilidade do fabricante acima identificado. |     |

Assinado por e em nome do fabricante por:  
Chefe do departamento de investigação e desenvolvimento Sylwester Katwiński

Wsola 2025-11-25

Kierownik  
Zespołu Badawczo-Rozwojowego  
