

Certificate of compliance with the minimum technical requirements according to BEG EM File no. DBI F 24/10/1118

With this certificate, the DVGW Energy Test Laboratory of the DBI - Gastechnologisches Institut gGmbH Freiberg confirms that for the product(s)

Heating boiler for solid fuels (DIN EN 303-5) of the series: LogWIN ...

for the fuel(s) wood logs according to DIN EN ISO 17225-5:2021-11

distributed by (certificate holder)

HIDU GmbH
Anton-Windhager-Straße 20
A-5201 Seekirchen am Wallersee

with the data from the subwithtded test report(s)

H-C1 1348-03/15 dated 08/07/2015 with H-A 1348-05/21 dated 27/01/2021 with writing from the manufacturer HIDU GmbH on structural equivalence LogWIN Klassik with LogWIN Klassik Pellet ready dated 25/02/2019 with H-C2 1348-04/22 dated 18.03.2022 with PL-22067-2-P-Korrigiert dated 14/03/2023 with PL-22067-2 dated 14/03/2023 with DBI F 23/04/1026 dated 08/05/2023

from the test laboratory TÜV SÜD Industrie Service GmbH, from the manufacturer HIDU GmbH, TU Wien Prüflabor für Feuerungsanlagen & DBI - Gastechnologisches Institut gGmbH Freiberg

in combination with the downstream dust separator (DIN SPEC 33999:2014-12)

of type: **OekoTube-Inside (OT1) oder OekoTube-Outside (OT2) oder OekoTube-Mauerwerk (OT-M)**

displaced by

OekoSolve AG
Schmelziweg 2
CH-8889 Plons-Mels SG

with the data from the subwithtded test report(s)

DBI F 21/05/0832 dated 31.05.2021 & DBI F 21/10/0870 dated 06.10.2021 & DBI F 23/04/1028 dated 03.07.2023 & DBI F 23/07/1050 dated 11.08.2023

from the test laboratory DBI - Gastechnologisches Institut gGmbH Freiberg

according to the directive(s)

"Guideline for the Federal Promotion of Efficient Buildings - Individual Measures (BEG EM) from 21.12.2023.

(Reference: BAnz AT 29.12.2023 B1)" (BAFA)*.

the following key figures have been calculated on the basis of the dust collection efficiency and the dust emissions of previous test reports.

This certificate confirms compliance with technical requirements of the above-mentioned regulation(s) of the listed product(s) and does not confirm standard conformity of the tested product(s). The DVGW Energy Test Laboratory accepts no liability for the correctness of the data in the above-mentioned test report(s). The certificate is valid only in connection with the corresponding appliance. The accreditation is valid only for the scope listed in the annex of the certificate (D-PL-11072-01-00). Remark: Test procedures indicated with star (*) are out of the scope of DAKS-accreditation. The uncertainty of measurement of the measurement results are not taken into account in the case of statement of conformity unless the specified test bases contain any other requirements. This document may be published and / or transmitted to third parties only in complete, unbridged form. Publication or dissemination of extracts, summaries, judgements or other derivations and reconfigurations, in particular for advertising purposes, is permissible only with the prior written consent of the test laboratory.

Summary of the measurement results & comparison with the requirements according to point 5.2 according to the test program for "Downstream dust separators for combustion plants" of the DIBt (March 2023), SAA 142/234 & SAA 142/207 (test method IBP) and section 6 of DIN SPEC 33999:2014-12, Type OekoTube-Inside Standard, design electrode length of ≥ 400 mm & fixed high voltage of 30 / 40 kV ¹⁾

| Heat Output | Grouping of commercial fireplaces | Requirement according to test programme | Mean measured separation efficiency ¹⁾ | Limit value / requirement for degree of separation | Requirement fulfilled |
|---------------|-----------------------------------|---|---|--|-----------------------|
| 30 kV - Modul | I (0 – 25 kW) | 5.2 | 98,6 | ≥ 50 % | yes |
| 30 kV - Modul | II (>25 – 50 kW) | | 93,2 | | |
| 30 kV - Modul | III (>50 – 80 kW) | | 75,63 | | |
| 40 kV - Modul | III (>50 – 80 kW) | | 77,14 | | |

¹⁾ The data was taken from the previous test report DBI F 23/04/1028 dated 03.07.2023 on the downstream dust separator.

Summary of the measurement results & comparison with the requirements according to point 3.3.3 of the guideline for federal funding for efficient individual building measures (BEG EM), Boiler in combination with the downstream dust separator OekoTube-Inside / -Mauerwerk / -Outside

| Boiler type Nominal heat output ²⁾ (fuel: wood logs) | Related test report | | Separation efficiency depending on the grouping of commercially available fireplaces in % ³⁾ | Calculated dust emission in combination with the downstream dust separator in mg/m ³ related to 13 % O ₂ ⁴⁾ | Limit value BAFA specification in mg/m ³ | Requirement fulfilled |
|---|-------------------------------|---|---|--|---|-----------------------|
| | File reference | Mean measured dust emission in mg/m ³ related to 13 % O ₂ | | | | |
| LogWIN Klassik 180 with 18,0 kW | H-C1 1348-03/15 | 10 | 98,8 | 0,1 | $\leq 2,5$ | yes |
| LogWIN Klassik 250 with 25,0 kW | H-A 1348-05/21 | 10 | 98,8 | 0,1 | $\leq 2,5$ | yes |
| LogWIN Klassik 300 with 30,0 kW | H-C2 1348-04/22 | 12 | 93,9 | 0,7 | $\leq 2,5$ | yes |
| LogWIN Klassik 180 pellet ready with 18,0 kW | H-C1 1348-03/15, writing HIDU | 10 | 98,8 | 0,1 | $\leq 2,5$ | yes |
| LogWIN Klassik 250 pellet ready with 25,0 kW | H-A 1348-05/21, writing HIDU | 10 | 98,8 | 0,1 | $\leq 2,5$ | yes |
| LogWIN Klassik 300 pellet ready with 30,0 kW | H-C2 1348-04/22, writing HIDU | 12 | 93,9 | 0,7 | $\leq 2,5$ | yes |
| LogWIN Klassik 205 (W) with 19,5 kW | PL-22067-2-P | 4 | 98,8 | 0,05 | $\leq 2,5$ | yes |

²⁾ The diameter of the downstream dust separator must be ≥ 130 mm and at the same time corresponds at least to the flue gas connection diameter of the boiler.

³⁾ After the respective boiler has been assigned to the corresponding group for commercially available fireplaces depending on its nominal heat output, the dust separator is selected from the previous test report.

⁴⁾ The standard rounding rules were used to indicate the calculated dust emissions (for 4 and below are rounded down, 5 and above are rounded up) in order to round to figures with one decimal place.

This certificate confirms the fulfilment of the requirements according to BEG EM, TMA section 3.3.3, for the dust liwith value of $\leq 2.5 \text{ mg/m}^3$ for the boilers listed in this certificate.

The determined characteristic data only apply to the combined installation of the named boiler(s) in conjunction with the addressed downstream dust separator(s).

Within the scope of the assessment, only boilers are considered which already fulfil the requirements for the liwith values of the annual space heating efficiency η_s according to BEG EM, TMA section 3.3.2, and for CO according to BEG EM, TMA section 3.3.3, during the type test. Proof of compliance with the above requirements shall be provided separately.

This certificate consists of 3 page(s) and 2 annex(es) and is only valid in conjunction with the above-mentioned test report(s), which remain valid.

The present report DBI F 24/10/1118 dated 16/10/2024 is the updated English translation of the original report DBI F 23/04/1026 dated 08/05/2023. In case of doubt the German wording according to origin report DBI F 23/04/1026 is valid.



Freiberg, 16/10/2024



Dipl.-Ing. Ronald Aßmann

Head of the test laboratory

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Bau- und Funktionsgleichheit LogWIN Klassik – Pellets ready

Die Firma HIDU GmbH bestätigt hiermit, dass die Ausführungen der Stückholz-Vergaserkessel LogWIN Klassik und LogWIN Klassik P (pellet ready) heiztechnisch vollkommen identisch sind.

Die Ausführung LogWIN Klassik P (pellet ready) ist von Seiten der Verkleidung und der Steuerung für die Kombination mit der Pelletseinheit BioWIN 2 vorbereitet. Die verbrennungsseitigen Kenndaten sind identisch wie in den Berichten H-C1 1348-03/15, H-C2 1348-04/22 bzw. H-A 1348-05/21 dokumentiert.

Mit freundlichen Grüßen

HIDU GmbH



Michael Kerschbaum
Prüfstand

Confirmation / Release

The company

OekoSolve AG
 Schmelziweg 2
 CH-8889 Plons

as the contracting authority and original owner of the test reports over the

dust separation efficiency OekoTube-Inside with inspection report Nr. DBI F 21/05/0832 of 03.07.2023

dust separation efficiency OekoTube-Inside with inspection report Nr. DBI F 21/10/0870 of 06.10.2021

dust separation efficiency OekoTube-Inside with inspection report Nr. DBI F 23/07/1050 of 11.08.2023

confirms that the electrostatic precipitators of the type OekoTube-Inside, OekoTube-Outside and OekoTube-Mauerwerk, documented in the above mentioned test reports, can be combined with suitable heating boilers according to EN 303-5 or water-bearing pellet stoves according to EN 14785 or EN 16510 for the calculated verification (of the particle mass concentrations after the separator).

The mathematical verification / statement of the particle mass concentrations after the separator, from the combination of the above particle separator together with the boiler(s) according to EN 303-5 or water-bearing pellet stoves according to EN 14785 or EN 16510, is the responsibility of a testing laboratory accredited according to DIN EN ISO/IEC 17025:2018 (with accreditation for particle separators and/or boilers for solid fuels) and must be documented in a separate test certificate.

The above-mentioned test report on the particle separator and the test report(s) on the boiler(s) according to EN 303-5 or water-bearing pellet stoves according to EN 14785 or EN 16510 must be made available to the executing test laboratory (for the preparation of the test certificate) in its entirety with all associated attachments and in unabridged form.

The permissible combinations of particle separators and boilers can be found in Appendix 1.

Plons, 17.01.2024

Company stamp, Bernd Weishaar
(Legally binding signature)

OekoSolve AG
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 8889 Plons SG

Annex

Appendix 1 – Permissible combination(s) of particle separator and boiler(s)