

## Deutsche Akkreditierungsstelle

### Annex to the Accreditation Certificate D-PL-11120-04-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 10.01.2024

**Date of issue:** 10.01.2024

Holder of accreditation certificate:

**TÜV Rheinland Energy & Environment GmbH  
Am Grauen Stein, 51105 Köln**

with the location

**TÜV Rheinland Energy & Environment GmbH  
Test Centre for Energy Appliances  
Am Grauen Stein, 51105 Köln**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

Tests in the fields:

**Testing and determination of energy, fire protection, safety, functional and environmental characteristics and properties of firing and heat generation systems;**

**Testing of equipment under Regulation (EU) 2016/426 on appliances burning gaseous fuels and Directive 2009/142/EC relating to appliances burning gaseous fuels;**

**Testing and assessment of the efficiency of new hot-water boilers fired with liquid or gaseous fuels for implementation of Directive 2009/125/EC on the environmentally design of space heaters;**

*This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.*

Abbreviations used: see last page

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**Measurement and calculation of energy performance indicators for heat generators under the Directive on energy-related products (2010/30/EU);**

**Testing of construction products (system of assessment and verification of constancy of performance 3) within the scope of the Regulation (EU) No 305/2011 laying down harmonised conditions for the marketing of construction products (Construction Products Regulation)**

**The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.**

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**1 Testing and determination of energy, fire protection, safety, functional and environmental characteristics and properties of firing and heat generation systems**

**1.1 General**

(Except testing to determine emissions and immissions of noise, testing of electromagnetic compatibility in accordance with the DIN EN 61000 and DIN EN 55014 series of standards and testing of protection classes higher than IP40 in accordance with DIN EN 60529)

DIN EN 12897                      Water supply - Specification for indirectly heated unvented (closed)  
2020-05                              storage water heaters  
    without Annex A

DIN EN 15332                      Heating boilers - Energy assessment of hot water storage tanks  
2020-01

**1.2 Firing systems for solid fuels**

(Except testing to determine emissions and immissions of noise, testing of electromagnetic compatibility in accordance with the DIN EN 61000 and DIN EN 55014 series of standards and testing of protection classes higher than IP40 in accordance with DIN EN 60529)

DIN EN 12619                      Stationary source emissions – Determination of the mass  
2013-04                              concentration of total gaseous organic carbon – Continuous flame  
    ionisation detector method

DIN EN 13284-1                      Stationary source emissions - Determination of low range mass  
2018-02                              concentration of dust - Part 1: Manual gravimetric method

DIN EN 14792                      Stationary source emissions – Determination of mass concentration  
2017-05                              of nitrogen oxides – Standard reference method:  
    Chemiluminescence

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| DIN EN 303-5<br>2021-09                               | Heating boilers – Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW – Terminology, requirements, testing and marking |
| DIN EN 12809<br>2005-08 +<br>Corrigendum 1<br>2008-06 | Residential independent boilers fired by solid fuel – Nominal heat output up to 50 kW – Requirements and test methods  |
| DIN EN 12815<br>2005-09 +<br>Corrigendum 1<br>2008-06 | Residential cookers fired by solid fuel – Requirements and test methods  |
| DIN EN 13229<br>2005-10 +<br>Corrigendum 1<br>2008-06 | Inset appliances including open fires fired by solid fuels – Requirements and test methods   |
| DIN EN 13240<br>2005-10 +<br>Corrigendum 1<br>2008-06 | Room heaters fired by solid fuel – Requirements and test methods   |
| DIN EN 14785<br>2006-09 +<br>Corrigendum 1<br>2007-10 | Residential space heating appliances fired by wood pellets – Requirements and test methods   |
| DIN CEN/TS 15883;<br>DIN SPEC 1101<br>2010-02         | Residential solid fuel burning appliances – Emission test methods  |
| DIN EN 16510-1<br>2018-11                             | Residential solid fuel burning appliances – Part 1: General requirements and test methods  |
| prDIN EN 16510-1<br>2021-04                           | Residential solid fuel burning appliances - Part 1: General requirements and test methods  |
| prDIN EN 16510-2-1<br>2021-04                         | Residential solid fuel burning appliances - Part 2-1: Roomheaters  |
| prDIN EN 16510-2-2<br>2021-04                         | Residential solid fuel burning appliances - Part 2-2: Inset appliances including open fires  |

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| prDIN EN 16510-2-3<br>2021-04 | Residential solid fuel burning appliances - Part 2-3: Cookers  |
| prDIN EN 16510-2-6<br>2021-04 | Residential solid fuel burning appliances - Part 2-6: Mechanically by wood pellets fed roomheaters, inset appliances and cookers |

**1.3 Firing systems for liquid fuels**

(Except testing to determine emissions and immissions of noise, testing of electromagnetic compatibility in accordance with the DIN EN 61000 and DIN EN 55014 series of standards and testing of protection classes higher than IP40 in accordance with DIN EN 60529)

|   |  |
|---|--|
| EN 267<br>2020 +<br>DIN EN 267<br>2021-09 | Forced draught burners for liquid fuels  |
| DIN EN 303-1<br>2017-11                   | Heating boilers – Part 1: Heating boilers with forced draught burners – Terminology, general requirements, testing and marking   |
| DIN EN 303-2<br>2017-11                   | Heating boilers – Part 2: Heating boilers with forced draught burners – Special requirements for boilers with atomizing oil burners  |
| DIN EN 303-4<br>1999-03                   | Heating boilers – Part 4: Heating boilers with forced draught burners – Special requirements for boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar – Terminology, special requirements, testing and marking |
| DIN EN 13842<br>2004-10                   | Oil fired forced convection air heaters – Stationary and transportable for space heating   |
| DIN EN 16647<br>2016-04                   | Fireplaces for liquid fuels – Decorative appliances producing a flame using alcohol based or gelatinous fuel – Use in private households   |

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**1.4 Refrigerating systems and heat pumps**

(Except testing to determine emissions and immissions of noise, testing of electromagnetic compatibility in accordance with the DIN EN 61000 and DIN EN 55014 series of standards and testing of protection classes higher than IP40 in accordance with DIN EN 60529)

DIN EN 14511-2  
2019-07                      Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 2: Test conditions

DIN EN 14511-3  
2019-07                      Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 3: Test methods

**1.5 Measurement and calculation of energy performance indicators for heat generators under the Directive on energy-related products (2010/30/EU) and 2009/125/EU**

DIN EN 303-5  
2021-09                      Heating boilers – Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW – Terminology, requirements, testing and marking

DIN EN 304  
2018-02                      Heating boilers – Test code for heating boilers for atomizing oil burners

EN 12977-3  
2018                          Thermal solar systems and components – Custom built systems – Part 3: Performance test methods for solar water heater stores

DIN EN 12897  
2020-05                      Water supply – Specification for indirectly heated unvented (closed) storage water heaters

DIN EN 13203-1  
2015-12                      Gas fired domestic appliances producing hot water – Appliances not exceeding a nominal heat input of 70 kW and a storage capacity of 300 litres of water – Part 1: Assessment of performance of hot water deliveries

DIN EN 13203-2  
2019-07                      Gas-fired domestic appliances producing hot water - Part 2: Assessment of energy consumption

DIN EN 14825  
2019-07                      Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling - Testing and rating at part load conditions and calculation of seasonal performance

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|---|--|
| DIN EN 15035<br>2007-05                               | Heating boilers – Special requirements for oil fired room sealed units up to 70 kW   |
| DIN EN 15332<br>2020-01                               | Heating boilers - Energy assessment of hot water storage tanks   |
| DIN EN 15456<br>2008-06                               | Heating boilers – Electrical power consumption for heat generators – System boundaries – Measurements  |
| DIN EN 15502-1<br>2022-02                             | Gas-fired heating boilers – Part 1: General requirements and tests   |
| DIN EN 15502-2-1<br>2017-09                           | Gas-fired heating boilers – Part 2-1: Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal heat input not exceeding 1 000 kW<br>Except 8.102 and 8.103 |
| DIN EN 15502-2-2<br>2014-10                           | Gas-fired heating boilers – Part 2-2: Specific standard for type B1 appliances   |
| EN 16147<br>2017 +<br>DIN EN 16147<br>2017-08         | Heat pumps with electrically driven compressors – Testing, performance rating and requirements for marking of domestic hot water units   |
| DIN EN 50440<br>2021-08                               | Efficiency of domestic electrical storage water heaters  |
| EN 50193-1<br>2016 +<br>DIN EN 50193-1<br>2021-08     | Electric instantaneous water heaters – Test method for measurement of performance characteristics – Part 1: General requirements   |
| EN 50193-2-1<br>2016 +<br>DIN EN 50193-2-1<br>2021-08 | Electric instantaneous water heaters - Part 2-1: Methods for measuring the performance - Multifunctional electric instantaneous water heaters  |
| EN 50193-2-2<br>2016 +<br>DIN EN 50193-2-2<br>2021-08 | Electric instantaneous water heaters - Part 2-2: Performance requirements - Single point of use electric instantaneous showers – Efficiency  |
| DIN EN 60379<br>2004-07                               | Methods for measuring the performance of electric storage water-heaters for household purposes (IEC 60379:1987, modified)  |

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| Regulation (EU) No 811/2013  | Commission Delegated Regulation (EU) No 811/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device |
| Regulation (EU) No 812/2013  | Commission Delegated Regulation (EU) No 812/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of water heaters, hot water storage tanks and packages of water heater and solar device  |
| Regulation (EU) No 813/2013  | Commission Regulation (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters   |
| Regulation (EU) No 814/2013  | Commission Regulation (EU) No 814/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for water heaters and hot water storage tanks   |
| Regulation (EU) No 2015/1185 | Commission Regulation (EU) 2015/1185 of 24 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel local space heaters  |
| Regulation (EU) No 2015/1186 | Commission Delegated Regulation (EU) 2015/1186 of 24 April 2015 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of local space heaters  |
| Regulation (EU) No 2015/1188 | Commission Regulation (EU) 2015/1188 of 28 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for local space heaters   |

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Regulation (EU) No 2015/1189                      Commission Regulation (EU) 2015/1189 of 28 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel boilers

Regulation (EU) No 2016/2281                      Commission Regulation (EU) 2016/2281 of 30 November 2016 implementing Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products, with regard to ecodesign requirements for air heating products, cooling products, high temperature process chillers and fan coil units

**1.6                      Firing systems for industrial applications**

DIN EN 746-2  
2011-02                      Industrial thermoprocessing equipment – Part 2: Safety requirements for combustion and fuel handling systems

DIN EN 12953-7  
2002-08                      Shell boilers – Part 7: Requirements for firing systems for liquid and gaseous fuels for the boiler

DIN EN 12953-9  
2007-09                      Shell boilers – Part 9: Requirements for limiting devices of the boiler and accessories

DIN EN 12952-8  
2002-08                      Water-tube boilers and auxiliary installations – Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler

DIN EN 12952-11  
2007-09                      Water-tube boilers and auxiliary installations – Part 11: Requirements for limiting devices of the boiler and accessories

DIN EN 14394  
2008-12                      Heating boilers – Heating boilers with forced draught burners – Nominal heat output not exceeding 10 MW and maximum operating temperature of 110 °C

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**1.7 Measurement and calculation of energy performance indicators and Labelling for water heaters according to SASO 2884**

|   |   |
|---|---|
| SASO 2884<br>2017 +<br>SASO 2884/AMD1<br>2018 +<br>SASO 2884/AMD2<br>2018 +<br>SASO 2884/AMD3<br>2020 +<br>SASO 2884/AMD4<br>2021 | Water Heaters - Energy Performance Requirements and Labelling |
|---|---|

**2 Testing of equipment under Regulation (EU) 2016/426 on appliances burning gaseous fuels and Directive 2009/142/EC relating to appliances burning gaseous fuels**  
(Except testing to determine emissions and immissions of noise, testing of electromagnetic compatibility in accordance with the DIN EN 61000 and DIN EN 55014 series of standards and testing of protection classes higher than IP40 in accordance with DIN EN 60529)

|                      |   |
|----------------------|---|
| DIN EN 26<br>2015-08 | Gas-fired instantaneous water heaters for the production of domestic hot water<br>except 6.8.10 Atmosphere sensing device for type A <sub>AS</sub> appliances<br>except 8.3 Requirements for plastic in the combustion product evacuation ducts, terminals and fitting pieces for appliances<br>except 8.4 Requirements for elastomeric seals and elastomeric sealants in the combustion product evacuation ducts, terminals and fitting pieces |
|----------------------|---|

|                      |   |
|----------------------|---|
| DIN EN 89<br>2015-08 | Gas-fired storage water heaters for the production of domestic hot water<br>except 5.2.2.3 Enamelling - Physiological safety<br>except 5.2.2.4.4 Durability against corrosion of combustion product evacuation duct<br>except 8.7 Requirements for plastic in the combustion product evacuation ducts, terminals and fitting pieces for appliances<br>except 8.8 Requirements for elastomeric seals and elastomeric sealants in the combustion product evacuation ducts, terminals and fitting pieces |
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|---|---|
| DIN EN 303-3<br>2004-10 +<br>Corrigendum 1<br>2007-07 | Heating boilers – Part 3: Gas-fired central heating boilers – Assembly comprising a boiler body and a forced draught burner   |
| DIN EN 449<br>2008-03                                 | Specification for dedicated liquefied petroleum gas appliances – Domestic flueless space heaters (including diffusive catalytic combustion heaters)   |
| DIN EN 461<br>2004-11                                 | Specifications for dedicated liquefied petroleum gas appliances – Flueless non-domestic space heaters not exceeding 10 kW   |
| DIN EN 525<br>2009-11                                 | Non-domestic direct gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW<br><i>(withdrawn standard)</i>   |
| DIN EN 656<br>2000-01 +<br>Amendment 1<br>2006-12     | Gas-fired hot water boilers – Type B boilers of nominal heat input exceeding 70 kW but not exceeding 300 kW   |
| EN 676<br>2020 +<br>DIN EN 676<br>2021-09             | Forced draught burners for gaseous fuels  |
| DIN EN 1020<br>2010-05                                | Non-domestic forced convection gas-fired air heaters for space heating not exceeding a net heat input of 300 kW incorporating a fan to assist transportation of combustion air or combustion products <i>(withdrawn standard)</i> |
| DIN EN 1196<br>2011-11                                | Domestic and non-domestic gas-fired air heaters – Supplementary requirements for condensing air heaters<br><i>(withdrawn standard)</i>  |
| DIN EN 1596<br>2005-01                                | Specification for dedicated liquefied petroleum gas appliances – Mobile and portable non-domestic forced convection direct fired air heaters  |
| DIN EN 13836<br>2007-06                               | Gas-fired hot water boilers – Type B boilers of nominal heat input exceeding 300 kW but not exceeding 1000 kW   |
| DIN EN 14543<br>2017-10                               | Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use  |

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| DIN EN 17082<br>2020-04 | Domestic and non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW                         |
| DIN EN 50465<br>2020-09 | Gas appliances - Combined heat and power appliance of nominal heat input inferior or equal to 70 kW  |
| DIN 3372-2<br>1980-01   | Gas appliances – Radiant heaters for open-air use  |
| DIN 3372-3<br>1980-05   | Gas appliances – Radiant heaters for animal breeding   |
| DIN 3372-4<br>1983-04   | Gas appliances – Mobile non-fan assisted radiant heaters for indoor and open-air use   |
| DIN 30697-3<br>1990-12  | Portable fan-assisted air heaters – LPG-fired air heaters with heat-exchanger – Safety requirements, testing, marking<br><i>(withdrawn standard)</i> |
| PG 341<br>2007-04       | Gas heaters<br>Requirements and tests for the ÖVGW-Quality Mark  |
| PG 345<br>2016-11       | Forced draught gas burners<br>Requirements and tests for the ÖVGW Quality Label  |
| PG 348<br>2007-04       | Gas storage water heaters<br>Requirements and tests for the ÖVGW-Quality Mark  |
| PG 349<br>2007-04       | Portable flueless radiant gas heaters<br>Requirements and tests for the ÖVGW-Quality Mark<br>except chapter B Safety device for ambient air control  |
| QS-G 300<br>2019-05     | Gas appliances<br>Requirements and tests for the ÖVGW-Quality Mark   |
| QS-G 301<br>2017-11     | Cascade Requirements and tests for the ÖVGW-Quality Mark<br>except chapter 4.2.1 Testing according to the calculation method of<br>ÖNORM EN 13384-2  |
| QS-G 307<br>2015-10     | Gas appliances with atmospheric burners<br>Emission values   |
| QS-G 342<br>2020-11     | Instantaneous gas-fired waterheaters<br>Requirements and tests for the ÖVGW-Quality Mark   |

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| QS-G 343<br>2018-01 | Gas-fired instantaneous waterheaters<br>Requirements and tests for the ÖVGW-Quality Mark                     |
| QS-G 346<br>2018-01 | Condensing appliances for gaseous fuels<br>Requirements and tests for the ÖVGW-Quality Mark                  |
| QS-G 362<br>2014-05 | Assembly of heat exchanger and forced draught gas burner<br>Requirements and tests for the ÖVGW-Quality Mark |
| QS-G 364<br>2017-11 | Gas-Fired Heaters for Process Heat<br>Requirements and tests for the ÖVGW-Quality Mark                       |

**3 Testing of construction products (system of assessment and verification of constancy of performance 3) under Regulation (EU) No 305/2011 laying down harmonized conditions for the marketing of construction products (Construction Products Regulation)**

| Decision of the Commission            | System <sup>1)</sup> | Technical specification  |
|---------------------------------------|----------------------|--|
| 99/471/EC<br>Space heating appliances | 3                    | <b>EN 14785:2006</b><br>Residential space heating appliances fired by wood pellets – Requirements and test methods                     |
|                                       |                      | <b>EN 13240:2001 + A2:2004 + AC:2007</b><br>Room heaters fired by solid fuel – Requirements and test methods                           |
|                                       |                      | <b>EN 12815:2001 + A1:2004 + AC:2007</b><br>Residential cookers fired by solid fuel – Requirements and test methods                    |
|                                       |                      | <b>EN 13229:2001 + A2:2004 + AC:2007</b><br>Inset appliances including open fires fired by solid fuels – Requirements and test methods |

<sup>1)</sup> for assessment and verification of consistency of performance

*The requirements for a testing laboratory are fulfilled according to article 43 of the Construction Products Regulation.*

*Without prior approval by the DAkKS German Accreditation Body, the testing laboratory body is permitted to use new revisions of harmonized technical specifications.*

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**Abbreviations used:**

|      |  |
|------|--|
| DIN  | Deutsches Institut für Normung e.V. (German institute for standardization)                                       |
| EN   | Europäische Norm (European Standard)   |
| IEC  | International Electrotechnical Commission  |
| ISO  | International Organization for Standardisation   |
| ÖVGW | Österreichische Vereinigung für das Gas- und Wasserfach<br>(Austrian Association for the Gas and Water Industry) |
| PG   | Prüfrichtlinie des ÖVGW (Test Guideline of ÖVGW)   |
| QS   | Qualitätsstandard der ÖVGW (Quality Standard of ÖVGW)  |
| SASO | Saudi Standards, Metrology and Quality Organization  |

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