


<p>List of accredited standards Test Laboratory Refrigeration, Air-Conditioning, Combustion and Heating Systems PL-14153-04-00</p>	
<p>Integriertes Managementsystem</p>	

Test in the field:

Air conditioning and refrigeration, transport refrigeration - firing, heating and exhaust technology for gaseous, solid and liquid fuels - gas consumer installation in scope of the product safety act (ProdSG) and the directive 2009/142/EC - testing of space heaters fired by solid and liquid fuel in scope of the Regulation (EU) No 305/2011 laying down harmonised conditions for the marketing of construction products (Building Product Act);
Technical acoustics and vibration measurements; building automation

Locations:

M – Ridlerstraße 65, 80339 Munich, Germany
O – Geiselbullacher Straße 2, 82140 Olching, Germany


not flexible accredited standards are marked with *

1 Laboratory area air conditioning and refrigeration, transport refrigeration


1.1 Refrigeration products

DIN EN 327 2014-11	Heat exchangers - Forced convection air cooled refrigerant condensers - Test procedures for establishing performance	M, O
DIN EN 328 2014-11	Heat exchangers - Forced convection unit air coolers for refrigeration - Test procedures for establishing the performance	M, O
DIN EN 378-2 2018-04	Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation	M, O
DIN EN 810 1997-06	Dehumidifiers with electrically driven compressors - Rating tests, marking, operational requirements and technical data sheet	M, O
DIN EN 1048 2014-11	Heat exchangers - Air cooled liquid coolers ('dry coolers') - Test procedures for establishing the performance	M, O
DIN EN 1117 2003-04	Heat exchangers - Liquid cooled refrigerant condensers - Test procedures for establishing the performance	M, O
DIN EN 1118 2003-04	Heat exchangers - Refrigerant cooled liquid coolers - Test procedure for establishing the performance	M, O


Combustion and Heating Systems TÜV SÜD TÜV SÜD (tuvsud.com)		Building Services TÜV SÜD (tuvsud.com)	
created/modifiedt: Hannes Beyer	released: Johannes Steiglechner and Andreas Klotz	is-tak@tuvsud.com	page 1 of 41
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DIN EN 1148 1998-12	Heat exchangers - Water to water heat exchangers for district heating - Test procedures for establishing the performance data	M, O
AS 1731 Part 1 2003 Reconfirmed 2013	Refrigerated display cabinets Part 1: Terms and definitions	M, O
AS 1731 Part 4 2003 Reconfirmed 2013	Refrigerated display cabinets Part 4: General test conditions	M, O
AS 1731 Part 5 2003 Reconfirmed 2013	Refrigerated display cabinets Part 5: Temperature test	M, O
AS 1731 Part 6 2003 Reconfirmed 2013	Refrigerated display cabinets Part 6: Classification according to temperatures	M, O
AS 1731 Part 9 2003 Reconfirmed 2013	Refrigerated display cabinets Part 9: Electrical energy consumption test	M, O
AS 1731 Part 13 2003 Reconfirmed 2013	Refrigerated display cabinets Part 13: Test report	M, O
AS 1731 Part 14 2003 Reconfirmed 2013	Refrigerated display cabinets Part 14: Minimum energy performance standard (MEPS) requirements	M, O
DIN 8976 2017-03	Performance testing of compression type refrigerating systems	M, O
DIN EN 12309-1 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 1: Terms and definitions	M, O
DIN EN 12309-2 2016-04	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 2: Safety	M, O
DIN EN 12309-3 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 3: Test conditions	M, O

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DIN EN 12309-4 2015-03 +B1:2015-10	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 4: Test methods	M, O
DIN EN 12309-5 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 5: Requirements	M, O
DIN EN 12309-6 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 6: Calculation of seasonal performances	M, O
DIN EN 12309-7 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 7: Specific provisions for hybrid appliances	M, O
DIN EN 13215 2020-12	Condensing units for refrigeration - Rating conditions, tolerances and presentation of manufacturer's performance data	M, O
DIN 13277 2022-05	Refrigerators and freezers for laboratory and medical applications - Terminology, requirements, testing	M, O
DIN EN 13771-1 2017-04	Compressors and condensing units for refrigeration - Performance testing and test methods - Part 1: Refrigerant compressors	M, O
DIN EN 13771-2 2017-11	Compressors and condensing units for refrigeration - Performance testing and test methods - Part 2: Condensing units	M, O
DIN EN 14511-1 2019-07	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 1: Terms and definitions	M, O
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	M, O
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	M, O
DIN EN 14511-4 2019-07	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 4: Requirements	M, O

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DIN EN 14705 2005-10	Heat exchangers - Method of measurement and evaluation of thermal performances of wet cooling towers	M, O
DIN EN 14825 2019-07	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling, commercial and process cooling - Testing and rating at part load conditions and calculation of seasonal performance	M, O
DIN EN 16147 2017-08	Heat pumps with electrically driven compressors - Testing, performance rating and requirements for marking of domestic hot water units	M, O
DIN EN 16754 2016-05	Artisan Gelato and ice cream machinery - Performance characteristics and energy consumption	M, O
DIN EN 16764 2016-05	Soft ice cream machines - Performance and evaluation of energy consumption	M, O
DIN EN 16825 2016-12	Refrigerated storage cabinets and counters for professional use - Classification, requirements and test conditions	
DIN EN 16825/A1 2019-06	Refrigerated storage cabinets and counters for professional use - Classification, requirements and test conditions Modification A1:2019	M, O
DIN EN 16838 2019-09	Refrigerated display scooping cabinets and pozzetto for gelato - Classification, requirements, performance and energy consumption testing	M, O
DIN EN 16901 2017-04	Ice-cream freezers - Classification, requirements and test conditions	M, O
DIN EN 16902 2017-04	Commercial beverage coolers - Classification, requirements and test conditions	M, O
DIN EN 16905-1 2017-09	Gas-fired endothermic engine driven heat pumps - Part 1: Terms and definitions	M, O
DIN EN 16905-2 2020-03	Gas-fired endothermic engine driven heat pumps - Part 2: Safety	M, O
DIN EN 16905-3 2017-09	Gas-fired endothermic engine driven heat pumps - Part 3: Test conditions	M, O

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DIN EN 16905-4 2017-09	Gas-fired endothermic engine driven heat pumps - Part 4: Test methods	M, O
DIN EN 16905-5 2017-06	Gas-fired endothermic engine driven heat pumps - Part 5: Calculation of seasonal performances in heating and cooling mode	M, O
DIN EN 17032 2018-03	Blast chillers and freezers cabinets for professional use - Classification, requirements and test conditions	M, O
DIN EN 17032/A1 2019-06	Blast chillers and freezers cabinets for professional use - Classification, requirements and test conditions A1:2019	M, O
E DIN EN ISO 22041* 2018-05	Refrigerated storage cabinets and counters for professional use - Performance and energy consumption (ISO/DIS 22041:2018)	M, O
DIN EN ISO 23953-1 2016-03	Refrigerated display cabinets - Part 1: Vocabulary	M, O
DIN EN ISO 23953-2 2016-03	Refrigerated display cabinets - Part 2: Classification, requirements and test conditions	M, O
DIN EN 62552 2013-10	Household refrigerating appliances - Characteristics and test methods	M, O
EN 62552-1 2020-04	Household refrigerating appliances - Characteristics and test methods - Part 1: General requirements (IEC 62552-1:2015 , modified)	M, O
EN 62552-2 2020-04	Household refrigerating appliances - Characteristics and test methods - Part 2: Performance requirements (IEC 62552-2:2015 , modified)	M, O
EN 62552-3 2020-04	Household refrigerating appliances - Characteristics and test methods - Part 3: Energy consumption and volume (IEC 62552-3:2015 , modified)	M, O
IEC 62552-1 2015-02	Household refrigerating appliances - Characteristics and test methods - Part 1: General requirements	M, O
IEC 62552-2	Household refrigerating appliances - Characteristics and test	M, O

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2015-02 methods - Part 2: Performance requirements

IEC 62552-3 Household refrigerating appliances - Characteristics and test meth- M, O
2015-02 ods - Part 3: Energy consumption and volume

Within the framework of the following Eurovent programs only tests

Eurovent ECP-02 HE TECHNICAL CERTIFICATION RULES OF THE EUROVENT M, O
2020-06 CERTIFIED PERFORMANCE MARK - HEAT EXCHANGERS

Eurovent ECP-02 HE TECHNICAL CERTIFICATION RULES OF THE EUROVENT M, O
2022-11 CERTIFIED PERFORMANCE MARK - HEAT EXCHANGERS

Eurovent ECP 07 TECHNICAL CERTIFICATION RULES OF THE EUROVENT M, O
RDC CERTIFIED PERFORMANCE MARK - REMOTE REFRIGERATED
2021-03 DISPLAY CABINETS

Eurovent ECP 17 Eu- TECHNICAL CERTIFICATION RULES OF THE EUROVENT M, O
rovent HP CERTIFIED PERFORMANCE MARK - Eurovent Heat Pump (Eu-
2020-05 rovent HP)

Eurovent ECP 27 TECHNICAL CERTIFICATION RULES OF THE EUROVENT M, O
CDU CERTIFIED PERFORMANCE MARK - CONDENSING UNITS
2021-09


Eco design-Regu- COMMISSION REGULATION (EU) 2015/1095 of 5 May M, O
lation (EU) implementing Directive 2009/125/EC of the European Parliament
2015/1095 and of the Council with regard to ecodesign requirements for pro-
2015-05 fessional refrigerated storage cabinets, blast cabinets, condensing
units and process chillers

1.2 Ventilation and air conditioning


DIN EN 305 Heat exchangers - Definitions of performance of heat exchangers M,O
1997-07 and the general test procedure for establishing performance of all
heat exchangers

DIN EN 306 Heat exchangers - Methods of measuring the parameters necessary M,O
1997-07 for establishing the performance


DIN EN 307 Heat exchangers - Guidelines to prepare installation, operating and M,O
1998-12 maintenance instructions required to maintain the performance of
each type of heat exchanger

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DIN EN 308 1997-06	Heat exchangers - Test procedures for establishing performance of air to air and flue gases heat recovery devices	M,O
DIN EN 1216 2003-04	Heat exchangers - Forced circulation air-cooling and air-heating coils - Test procedure for establishing the performance (includes amendment A1:2002)	M,O
DIN EN 1397 2015-11	Heat exchangers - Hydronic room fan coil units - Test procedures for establishing the performance	M,O
DIN EN 1397 Corrigendum 1 2016-11	Heat exchangers - Hydronic room fan coil units - Test procedures for establishing the performance	M,O
DIN EN 1397 2022-03	Heat exchangers - Hydronic room fan coil units - Test procedures for establishing the performance	M,O
DIN EN 1507 2006-07	Ventilation for buildings - Sheet metal air ducts with rectangular section - Requirements for strength and leakage	M,O
DIN EN 1751 2014-06	Ventilation for buildings - Air terminal devices - Aerodynamic testing of damper and valves	M,O
DIN EN 1886 2009-07	Ventilation for buildings - Air handling units - Mechanical performance	M,O
DIN EN ISO 5801 2018-04	Fans - Performance testing using standardized airways (ISO 5801:2017)	O
DIN EN 12237 2003-07	Ventilation for buildings - Ductwork - Strength and leakage of circular sheet metal ducts	M,O
DIN EN 13053 2020-05	Ventilation for buildings - Air handling units - Rating and performance for units, components and sections	M,O
DIN EN 13141-1 2019-04	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 1: Externally and internally mounted air transfer devices	M,O
DIN EN 13141-2 2010-12	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 2: Exhaust and supply air terminal devices	M,O

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DIN EN 13141-3 2004-04	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 3: Range hoods for residential use without fan	M,O
DIN EN 13141-3 2017-09	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 3: Range hoods for residential use without fan	M,O
DIN EN 13141-4 2011-09	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 4: Aerodynamic, electrical power and acoustic performance of unidirectional ventilation units	M,O
DIN EN 13141-6 2015-02	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 6: Exhaust ventilation system packages used in a single dwelling	M,O
DIN EN 13141-7 2011-01	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 7: Performance testing of ducted mechanical supply and exhaust ventilation units (including heat recovery)	M,O
DIN EN 13141-7 2022-12	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 7: Performance testing of ducted mechanical supply and exhaust ventilation units (including heat recovery)	M,O
DIN EN 13141-8 2014-09	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 8: Performance testing of non-ducted mechanical supply and exhaust ventilation units (including heat recovery)	M,O
E DIN EN 13141-8 2021-02	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 8: Performance testing of non-ducted mechanical supply and exhaust ventilation units (including heat recovery)	M,O
DIN EN 13141-9 2008-10	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 9: Externally mounted humidity controlled air transfer device	M,O
DIN EN 13141-10 2008-10	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 10: Humidity controlled extract air terminal device	M,O

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DIN EN 13141-11 2015-07	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 11: Supply ventilation units	M,O
DIN EN 13142 2013-06	Ventilation for buildings - Components/products for residential ventilation - Required and optional performance characteristics	M,O
DIN EN 13180 2002-03	Ventilation for buildings - Ductwork - Dimensions and mechanical requirements for flexible ducts	M,O
DIN EN ISO 13350 2016-02	Ventilatoren - Leistungsmessung von Strahlventilatoren (ISO 13350:2015); Deutsche Fassung EN ISO 13350:2015	O
DIN EN 15650 2010-09	Ventilation for buildings - Fire dampers	M,O
E DIN EN 15650* 2020-04	Ventilation for buildings - Fire dampers	M,O
DIN EN 15727 2010-10	Ventilation for buildings - Ducts and ductwork components, leakage classification and testing	M,O
DIN EN 16573 2017-04	Ventilation for Buildings - Performance testing of components for residential buildings - Multifunctional balanced ventilation units for single family dwellings, including heat pumps	M,O
E DIN EN 17166* 2017-10	Fans - Procedures and methods to determine the energy efficiency for the electrical input power range of 125 W up to 500 kW	M,O
DIN EN 17192 2019-06	Ventilation for buildings - Ductwork - Non-metallic ductwork - Requirements and test methods	M,O
DIN 18017-3 2020-05	Ventilation of bathrooms and toilet rooms without outside windows - Part 3: Ventilation by fans	M,O
DIBt- LÜ-A 20 2002-10	Test program for central ventilation units with recuperative heat exchangers	M,O
DIBt- LÜ-A 21-1 2014-12	Preliminary test program for central ventilation units Part 1 - Recuperative heat exchanger	M,O
DIBt- LÜ-A 21-2 2014-12	Preliminary test program for central ventilation units Part 2 - Regenerative heat exchange	M,O

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DIBt- LÜ-A 22-1 2016-03	Preliminary test program for decentralized ventilation units Part 1 - Recuperative heat exchanger	M,O
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DIBt- LÜ-A 22-2.1 2020-04	Preliminary test program for decentralized ventilation units Part 2.1 - Regenerative heat exchanger (alternating fan rotation di- rection)	M,O
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DIBt- LÜ-A 23 2016-02	Preliminary test program for air supply units	M,O
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Im Rahmen folgender Eurovent-Programme nur Prüfungen:

Eurovent ECP FCU 2021-08	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - FAN COIL UNITS	M,O
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Eurovent ECP 05 AHU 2020-01	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - AIR HANDLING UNITS	M,O
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Eurovent ECP 05 AHU 2023-01	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - AIR HANDLING UNITS	M,O
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Eurovent ECP 05 AHU Appendix H for AHU 2021-07	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - HYGIENIC AIR HANDLING UNITS	M,O
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Eurovent ECP 08 AAHE 2020-05	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - AIR TO AIR PLATE AND TUBE HEAT EXCHANGERS	M, O
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Eurovent ECP 09 COIL 2021-03	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - FORCED CIRCULATION AIR COOLING AND HEATING COILS	M,O
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Eurovent ECP 10 AARE 2020-05	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - Air To Air Regenerative Heat Exchangers	M,O
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Eurovent OM-16-2018 2018-07	OPERATIONAL MANUAL for the CERTIFICATION of RESIDENTIAL AIR HANDLING UNITS	M,O
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Eurovent	Rating Standard for the Certification of Residential Air Handling	M,O
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RS15/C/001-2018 2018-07	Units	
Eurovent ECP 16 RAHU 2023-02	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - RESIDENTIAL AIR HANDLING UNITS	M,O
Eurovent OM-18-2017 2017-07	OPERATIONAL MANUAL for the CERTIFICATION of Heat Recovery Systems with intermediate heat transfer medium	M,O
Eurovent RS7/C/009-2017 2016-02	Rating Standard for the Certification of Heat Recovery Systems with intermediate heat transfer medium	M,O
Eurovent ECP 19 DUCTS 2021-09	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK - VENTILATION DUCTS	M,O
Eurovent ECP 24 EC 2021-08	TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK – EVAPORATIVE COOLING	M,O


Under the following regulations only tests:

Regulation (EU) Nr. 327/2011 2011-03	COMMISSION REGULATION (EU) No 327/2011 of 30 March 2011 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for fans driven by motors with an electric input power between 125 W and 500 kW	M,O
Regulation (EU) Nr. 1253/2014	COMMISSION REGULATION (EU) No 1253/2014 of 7 July 2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for ventilation units	M,O
Regulation (EU) Nr. 1254/2014	COMMISSION DELEGATED REGULATION (EU) No 1254/2014 of 11 July 2014 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of residential ventilation units	M,O
Regulation (EU) Nr. 30/2010	Basis for supplementation by regulation (EU) Nr. 1254/2014	M,O

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1.3 Technical acoustics

DIN EN ISO 3740 2019-08	Acoustics - Determination of sound power levels of noise sources - Guidelines for the use of basic standards (ISO 3740:2000)	M,O
DIN EN ISO 3744 2011-02	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2010)	O
DIN EN ISO 3745 2017-10	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for anechoic rooms and hemi-anechoic rooms (ISO 3745:2012 + Amd 1:2017)	O
DIN EN ISO 3746 2011-03	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane (ISO 3746:2010)	O
DIN EN ISO 3747 2011-03	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (ISO 3747:2010)	O
DIN EN ISO 7779 2019-04	Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment (ISO 7779:2018)	O
DIN EN ISO 9614-1 2009-11	Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points (ISO 9614-1:1993)	O
DIN EN ISO 9614-2 1996-12	Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 2: Measurement by scanning (ISO 9614-2:1996)	M, O
DIN EN ISO 11200 2020-10	Acoustics - Noise emitted by machinery and equipment - Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions (ISO 11200:2014)	O
DIN EN ISO 11201 2010-10	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane	O

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with negligible environmental corrections (ISO 11201:2010)

DIN EN ISO 11202 2010-10	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental correction (ISO 11202:2010)	O
DIN EN ISO 11202 2023-02	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections (ISO 11202:2010 + Amd.1:2020)	O
DIN EN ISO 11203 2010-01	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level (ISO 11202:1995)	M, O
DIN EN ISO 11203 2022-12	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level (ISO 11202:1995 + Amd 1:2020)	M, O
DIN EN ISO 11204 2019-10	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying accurate environmental corrections (ISO 11204:2010)	O
DIN EN ISO 11205 2009-12	Acoustics - Noise emitted by machinery and equipment - Engineering method for the determination of emission sound pressure levels in situ at the work station and at other specified positions using sound intensity (ISO 11205:2003)	O
DIN EN ISO 4871 2009-11	Acoustics - Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)	O
ISO 9296 2017-08	Acoustics - Declared noise emission values of information technology and telecommunications equipment	O
DIN EN ISO 1680 2014-04	Acoustics - Test code for the measurement of airborne noise emitted by rotating electrical machines (ISO 1680:2013)	O
DIN EN 12102 2013-10	Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling. Measurement of airborne noise. Determination of the sound	M, O


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power level.

<p>DIN EN 12102-1 2018-02</p>	<p>Air conditioners, liquid chilling packages, heat pumps, process chillers and dehumidifiers with electrically driven compressors - Determination of the sound power level - Part 1: Air conditioners, liquid chilling packages, heat pumps for space heating and cooling, dehumidifiers and process chillers</p>	<p>M, O</p>
<p>DIN EN 12102-2 2019-08</p>	<p>Air conditioners, liquid chilling packages, heat pumps, process chillers and dehumidifiers with electrically driven compressors - Determination of the sound power level - Part 2: Heat pump water heaters</p>	<p>M, O</p>
<p>ISO 13347-1 2004-08 + Technical Corrigendum 1 2006-10 + AMD 1:2010-11</p>	<p>Industrial fans - Determination of fan sound power levels under standardized laboratory conditions - Part 1: General overview</p>	<p>O</p>
<p>ISO 13347-3 2004-08 + Technical Corrigendum 1 2006-1 +AMD 1: 2010-11</p>	<p>Industrial fans - Determination of fan sound power levels under standardized laboratory conditions - Part 3: Enveloping surface methods</p>	<p>O</p>
<p>ISO 13347-4 2004-08 + Technical Corrigendum 1 2006-1</p>	<p>Industrial fans - Determination of fan sound power levels under standardized laboratory conditions - Part 4: Sound intensity method</p>	<p>O</p>
<p>DIN EN 13487 2019-11</p>	<p>Heat exchanger - Forced convection air cooled refrigerant condensers and dry coolers - Sound measurement</p>	<p>O</p>
<p>DIN EN 15036-1 2006-12</p>	<p>Heating boilers - Test regulations for airborne noise emissions from heat generators - Part 1: Airborne noise emissions from heat generators</p>	<p>O</p>

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DIN EN 15036-2 2006-12	Heating boilers - Test regulations for airborne noise emissions from heat generators - Part 2: Flue gas noise emissions at the outlet of the heat generator	0
DIN EN 16583 2015-10	Heat exchangers - Hydronic room fan coils units - Determination of the sound power level	0
DIN EN ISO 20361 2020-08	Liquid pumps and pumps units - Noise test code - Grades 2 and 3 of accuracy (ISO 20361:2019)	0
DIN EN ISO 22868 2018-06	Forestry and gardening machinery - Noise test code for portable hand-held machines with internal combustion engine - Engineering method (Grade 2 accuracy)	0
DIN EN 60704-1 2010-12 A11:2013-10	Household and similar electrical appliances - Test code for the determination of airborne noise - Part 1: General requirements (IEC 60704-1:2010}	0
DIN EN 60704-2-1 2015-07	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for dry vacuum cleaners (IEC 60704-2-1:2014}	0
DIN EN 60704-2-1 2021-11	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for dry vacuum cleaners (IEC 60704-2-1:2020}	0
DIN EN 60704-2-5 2015-10	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-5: Particular requirements for electric thermal storage room heaters (IEC 60704-2-5:2005 + A1:2014)	0
DIN EN IEC 60704-2-7 2020-12	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-7: Particular requirements for fans (IEC 60704-2-7:2020}	0
DIN EN 60704-2-11 2000-07	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-11: Particular requirements for electrically operated food preparation appliances (IEC 60704-2-11:1998}	0
DIN EN 60704-2-13 2018-01	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-13: Particular requirements for range hoods and other cooking fume extractors (IEC 60704-2-13:2016}	0


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the handles

DIN EN 12096 1997-09	Mechanical vibration - Declaration and verification of vibration emission values	0
ISO 14695 2003-04	Industrial fans - Method of measurement of fan vibration	0
ISO 14695 Technical Corrigendum 1:2009-03	Industrial fans - Method of measurement of fan vibration; Technical Corrigendum 1	0

1.5 ATP test station / transport refrigeration

DIN 1815 2004-12	Cargo van with thermal insulated cargo space for the transport of food - Requirements and testing	0
DIN EN ISO 2233 2001-11	Packaging - Complete, filled transport packages and unit loads - Conditioning for testing (ISO 2233:2000)	M,O
DIN EN 8915 2006-10	Mobile cooling systems - Safety requirements and testing	M,O
DIN 8958-2 1998-11	Testing of cooling equipment for insulated means of transportation - Part 2: Transport refrigerating system with eutectic elements, dry ice and cryogenic liquid gas	M,O
DIN 8959 2000-09 Corrigendum 1 2001-03	Insulated food carriers - Requirements and testing	M,O
ISO 10263-4 2009-02	Earth-moving machinery - Operator enclosure environment - Part 4: Heating, ventilating and air conditioning (HVAC) test method and performance	0
DIN EN 12830 2018-10	Temperature recorders for the transport, storage and distribution of temperature sensitive goods - Tests, performance, suitability	M,O
DIN EN 13485 2002-02	Thermometers for measuring the air and product temperature for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and ice cream - Test, performance, suitability	M,O
DIN EN 13486 2002-02	Thermometer recorders and thermometers for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and	M,O


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ice cream - Periodic verification

ISO 14269-2 1997-12	Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment - Part 2: Heating, ventilation and air-conditioning test method and performance	O
DIN EN 16440-1 2015-05	Testing methodologies of refrigerating devices for insulated means of transport - Part 1: Mechanical cooling device with forced air circulation evaporator with or without heating device	M,O
DIN EN 17066-1 2019-10	Insulated means of transport for temperature sensitive goods - Requirements and testing - Part 1: Container	M,O
DIN 55545-1 2018-11	Packagings - Packagings with insulating properties - Part 1: Test method for the determination of thermal performance	M,O
DIN SPEC 91323 2016-03	Temperature conditioned transport equipment used for the distribution of pharmaceutical products (for human beings or veterinary use) - Guidelines for qualification	O
ATP-Agreement 2020-07	Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP)	O
ATP-Agreement 2022-06	Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP)	O

1.6 Independent test areas

Eco design regulation (EU) 2016/2281 2016-11	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 Annex III – Measurements and calculations	M,O
DIN EN 60335-2-24 2019-11	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers	M, O
DIN EN 60335-2-40 2014-01	Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners	M,O

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and dehumidifiers

<p>DIN EN 60335-2-65 2013-02 Supplement 1 2016-06</p>	<p>Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances</p>	<p>M, O</p>
<p>DIN EN 60335-2-88 2003-09</p>	<p>Household and similar electrical appliances - Safety - Part 2-88: Particular requirements for humidifiers intended for use with heating, ventilation, or air-conditioning system</p>	<p>M, O</p>
<p>DIN EN 60335-2-89 2018-10</p>	<p>Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor</p>	<p>M, O</p>
<p>DIN EN 60335-2-98 2020-05</p>	<p>Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers- (IEC 60335-2-98:2002 + A1:2004 + A2:2008)</p>	<p>M, O</p>


2 Laboratory area combustion, heat and exhaust gas technology M

2.1 Gaseous fuels


<p>DIN EN 676 2021-09</p>	<p>Forced draught burners for gaseous fuels</p>
<p>DIN EN 676 2023-03</p>	<p>Forced draught burners for gaseous fuels</p>
<p>ISO 22967 2010-11</p>	<p>Forced draught gas burners</p>
<p>DIN 30665-1 1982-03</p>	<p>Gas-appliances - Gas burners for laboratory use (laboratory burn- ers) - Part 1: Safety requirements and tests</p>
<p>DIN EN 303-1 2017-11</p>	<p>Heating boilers - Part 1: Heating boilers with forced draught burn- ers - Terminology, general requirements, testing and marking</p>
<p>DIN EN 303-3 2004-10 +Ber.1:2007-07</p>	<p>Heating boilers - Part 3: Gas-fired central heating boilers - Assembly comprising a boiler body and a forced draught burner</p>

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DIN EN 303-7 2007-05	Heating boilers - Part 7: Gas-fired central heating boilers equipped with a forced draught burner of nominal heat output not exceeding 1 000 kW
DIN EN 13836 2007-06	Gas-fired central heating boilers - Type B boilers of nominal heat input exceeding 300 kW, but not exceeding 1000 kW
DIN EN 15502-1 2015-10	Gas-fired heating boilers - Part 1: General requirements and tests
DIN EN 15502-1 2022-02	Gas-fired heating boilers - Part 1: General requirements and tests
DIN EN 15502-2-1 2017-09	Gas-fired central 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 1000 kW
DIN EN 15502-2-2 2014-10	Gas-fired central heating boilers - Part 2-2: Specific standard for type B1 appliances
DIN EN 50465 2020-09	Gas appliances - Combined heat and power appliance of nominal heat input inferior or equal to 70 kW
DIN EN 26 2015-08	Gas-fired instantaneous water heaters for the production of domestic hot water
DIN EN 89 2015-08	Gas-fired storage water heaters for the production of domestic hot water
DIN EN 13203-1 2015-12	Gas fired domestic appliances producing hot water - Part 1: Assessment of performance of hot water deliveries
DIN EN 13203-2 2019-06	Gas-fired domestic appliances producing hot water - Part 2: Assessment of energy consumption
DIN EN 13203-4 2017-07	Gas-fired domestic appliances producing hot water - Part 4: Assessment of energy consumption of gas combined heat and power appliances (mCHP) producing hot water and electricity
DIN EN 15033 2007-02	Room sealed storage water heaters for the production of sanitary hot water using LPG for vehicles and boats

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DIN EN 416 2020-04	Gas-fired overhead radiant tube heaters and radiant tube heater systems for non-domestic use - Safety and energy efficiency
DIN EN 419 2020-04	Gas-fired overhead luminous radiant heaters for non-domestic use - Safety and energy efficiency
DIN EN 449 2008-03	Specification for dedicated liquefied petroleum gas appliances - Domestic flueless space heaters (including diffusive catalytic combustion heaters)
DIN EN 461 2004-11	Specifications for dedicated liquefied petroleum gas appliances - Flueless non-domestic space heaters not exceeding 10 kW
DIN EN 613 2001-06 +A1	Independent gas-fired convection heaters
DIN EN 613 2022-05	Independent gas-fired convection heaters
DIN EN 624 2011-10	Specification for dedicated LPG appliances - Room sealed LPG space heating equipment for installation in vehicles and boats
DIN EN 1266 2003-03 +A1	Independent gas-fired convection heaters incorporating a fan to assist transportation of combustion air and/or flue gases
DIN EN 13278 2014-03	Open fronted gas-fired independent space heaters
DIN EN 14438 2007-03	Gas-fired insets for heating more than one room
DIN EN 14543 2017-10	Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use
DIN EN 14829 2007-11	Independent gas-fired flueless space heaters for nominal heat input not exceeding 6 kW
DIN EN 30-1-1 2013-06	Domestic cooking appliances burning gas - Part 1-1: Safety - General
DIN EN 30-1-2 2012-06	Domestic cooking appliances burning gas - Safety - Part 1-2: Appliances having forced-convection ovens

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DIN EN 30-1-3 2007-02	Domestic cooking appliances burning gas - Part 1-3: Safety - Appliances having a glass ceramic hotplate
DIN EN 30-1-4 2012-09	Domestic cooking appliances burning gas - Safety - Part 1-4: Appliances having one or more burners with an automatic burner control System
DIN EN 30-2-1 2015-08	Domestic cooking appliances burning gas - Part 2-1: Rational use of energy - General
DIN EN 30-2-2 1999-10	Domestic cooking appliances burning gas - Part 2-2: Rational use of energy - Appliances having forced-convection ovens and/or grills
DIN EN 203-1 2014-07 + Cor.1:2019-11	Gas heated catering equipment - Part 1: General safety rules
DIN EN 203-1 2022-05	Gas heated catering equipment - Part 1: General safety rules
DIN EN 203-2-1 2015-04	Gas heated catering equipment - Part 2-1: Specific requirements - Open burners and wok burners
DIN EN 203-2-1 2022-05	Gas heated catering equipment - Part 2-1: Specific requirements - Open burners and wok burners
DIN EN 203-2-2 2006-09	Gas heated catering equipment - Part 2-2: Specific requirements – Ovens
DIN EN 203-2-2 2022-05	Gas heated catering equipment - Part 2-2: Specific requirements - Ovens
DIN EN 203-2-3 2015-04	Gas heated catering equipment - Part 2-3: Specific requirements - Boiling pans
DIN EN 203-2-4 2006-02	Gas heated catering equipment - Part 2-4: Specific requirements – Fryers
DIN EN 203-2-4 2022-05	Gas heated catering equipment - Part 2-4: Specific requirements - Fryers
DIN EN 203-2-6 2006-02	Gas heated catering equipment - Part 2-6: Specific requirements - Hot water heaters for beverage

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DIN EN 203-2-7 2014-07	Gas heated catering equipment - Part 2-7: Specific requirements - Salamanders and rotisseries
DIN EN 203-2-8 2006-02	Gas heated catering equipment - Part 2-8: Specific requirements - Brat pans and paëlla cookers
DIN EN 203-2-9 2006-02	Gas heated catering equipment - Part 2-9 Specific requirements - Solid tops, warming plates and griddles
DIN EN 203-2-10 2007-07	Gas heated catering equipment - Part 2-10: Specific requirements - Chargrills
DIN EN 203-2-11 2006-09	Gas heated catering equipment - Part 2-11: Specific requirements - Pasta cookers
DIN EN 484 2020-06	Specification for dedicated liquefied petroleum gas appliances - Independent stoves, including those incorporating a grill for outdoor use
DIN EN 497 1998-04	Specification for dedicated liquefied petroleum gas appliances - Multipurpose boiling burners for outdoor use
DIN EN 498 2012-04	Specification for dedicated liquefied petroleum gas appliances - Barbecues for outdoor use contact grills included
DIN EN 521 2020-05	Specifications for dedicated liquefied petroleum gas appliances - Portable vapour pressure liquefied petroleum gas appliances
DIN EN 732 1999-04	Specification for dedicated liquefied petroleum gas appliances - Absorption refrigerators
DIN 30683-1 1978-05	Gas-appliances with atmospheric gasburners for installations in bakeries and confectioneries
DIN 30683-2 1984-12	Gas appliances; forced air gasburners with ventilation in bakeries
DIN EN 1596 2005-01	Specification for dedicated liquefied petroleum gas appliances - Mobile and portable non-domestic forced convection direct fired air heaters
DIN EN 17082 2020-04	Domestic and non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW

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DIN EN 1458-1 2012-02	Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW - Part 1: Safety
DIN EN 1458-2 2012-01	Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW - Part 2: Rational use of energy
DIN EN 12309-1 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 1: Terms and definitions
DIN EN 12309-2 2016-04	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 2: Safety
DIN EN 12309-3 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 3: Test conditions
DIN EN 12309-4 2015-03 + C1:2015-10	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 4: Test methods
DIN EN 12309-5 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 5: Requirements
DIN EN 12309-6 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 6: Calculation of seasonal performances
DIN EN 12309-7 2015-03	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 7: Specific provisions for hybrid appliances
DIN EN 509 2000-02+A1+A2	Decorative fuel-effect gas appliances
DIN EN 88-1 2016-06	Pressure regulators and associated safety devices for gas appliances - Part 1: Pressure regulators for inlet pressures up to and including 50 kPa
DIN EN 88-2 2008-03	Pressure regulators and associated safety devices for gas appliances - Part 2: Pressure regulators for inlet pressures above 500 mbar up to and including 5 bar
E DIN EN 88-3* 2020-06	Safety and control devices for gas burners and gas burning appliances - Part 3: Pressure and/or flow rate regulators for inlet pressures up to and including 500 kPa, electronic types

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DIN EN 125 2016-01	Flame supervision devices for gas burning appliances - Thermoelectric flame supervision devices
DIN EN 126 2012-06	Multifunctional controls for gas burning appliances
DIN EN 161 2013-04	Automatic shut-off valves for gas burners and gas appliances
DIN EN 257 2010-11	Mechanical thermostats for gas-burning appliances
DIN EN 298 2020-09	Automatic burner control systems for burners and appliances burning gaseous or liquid fuels
DIN EN 331 2016-04	Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings
DIN EN 334 2019-11	Gas pressure regulators for inlet pressures up to 10 MPa (100 bar)
DIN EN 549 2019-09	Rubber materials for seals and diaphragms for gas appliances and gas equipment
DIN EN 1106 2010-09	Manually operated taps for gas burning appliances
DIN EN 1643 2014-09	Safety and control devices for gas burners and gas burning appliances - Valve proving systems for automatic shut-off valves
DIN EN 1854 2010-10	Pressure sensing devices for gas burners and gas burning appliances
DIN EN 12067-2 2004-06	Gas/air ratio controls for gas burners and gas burning appliances - Part 2: Electronic types
DIN EN 13611 2019-06	Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - General requirements, also in connection with DIN EN 61508-1, DIN EN 61508-2, DIN EN 61508-3 and DIN EN 61508-4
DIN EN 13611	Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - General requirements,

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2022-01	also in connection with DIN EN 61508-1, DIN EN 61508-2, DIN EN 61508-3 and DIN EN 61508-4
DIN EN 13774 2013-05	Valves for gas distribution systems with maximum operating pressure less than or equal to 16 bar - Performance requirements
DIN EN 16304 2013-05	Automatic vent valves for gas burners and gas burning appliances
DIN EN 14141 2013-08	Valves for natural gas transportation in pipelines - Performance requirements and tests
DIN EN 16678 2016-02	Safety and control devices for gas burners and gas burning appliances - Automatic shut-off valves for operating pressure of above 500 kPa up to and including 6 300 kPa
E DIN EN 16898* 2020-07	Safety and control devices for gas burners and gas burning appliances - Gas filters having a maximum working pressure up to and including 600 kPa
ISO 23550 2018-04	Safety and control devices for gas and/or oil burners and appliances - General requirements
ISO 23551-1 2012-08	Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 1: Automatic and semi-automatic valves
ISO 23551-2 2018-09	Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 2: Pressure regulators
ISO 23551-3 2005-03	Safety and control devices for gas burners and gas-burning appliances. Particular requirements. Part 3. Gas/air ratio controls, pneumatic type
ISO 23551-4 2018-04	Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 4: Valve-proving systems for automatic shut-off valves
ISO 23551-5 2014-05	Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 5: Manual gas valves
ISO 23551-6 2014-08	Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 6: Thermoelectric flame supervision controls

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<p>ISO 23551-8 2016-02 + AMD1:2019-06 + DAM2:2019-05</p>	<p>Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 8: Multifunctional controls</p>
<p>ISO 23551-9 2015-08</p>	<p>Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 9: Mechanical gas thermostats</p>
<p>ISO 23551-10 2016-08</p>	<p>Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 10: Vent valves</p>
<p>ISO/DIS 23551-11 2020-02</p>	<p>Safety and control devices for gas burners and gas-burning appliances — Particular requirements — Part 11: Automatic shut-off valves for operating pressure of above 500 kPa up to and including 6300 kPa</p>

2.2 Liquid fuels


<p>DIN EN 267 2021-09</p>	<p>Forced draught burners for liquid fuels</p>
<p>ISO 22968 2010-11</p>	<p>Forced draught oil burners</p>
<p>DIN EN 303-1 2017-11</p>	<p>Heating boilers - Part 1: Heating boilers with forced draught burners - Terminology, general requirements, testing and marking</p>
<p>DIN EN 303-2 2017-11</p>	<p>Heating boilers - Part 2: Heating boilers with forced draught burners - Special requirements for boilers with atomizing oil burners</p>
<p>DIN EN 303-4 1999-03</p>	<p>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</p>
<p>DIN EN 303-6 2019-12</p>	<p>Heating boilers - Part 6: Heating boilers with forced draught burners - Specific requirements for the domestic hot water operation and energy performance of water heaters and combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW</p>
<p>DIN EN 304 2018-02</p>	<p>Heating boilers - Test code for heating boilers for atomizing oil burners</p>

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DIN EN 15035 2007-05	Heating boilers - Special requirements for oil fired room sealed units up to 70 kW
DIN EN 13842 2004-10	Oil fired forced convection air heaters - Stationary and transportable for space heating
DIN EN 16647 2016-04 + Draft A1: 2020-04	Fireplaces for liquid fuels - Decorative appliances producing a flame using alcohol based or gelatinous fuel - Use in private households
DIN EN 1 2007-12	Flued oil stoves with vaporizing burners
DIN EN 12514-1 2000-05	Installations for oil supply systems for oil burners - Part 1: Safety requirements and tests; parts, oil feed pumps, control and safety devices, supply tanks
E DIN EN 12514* 2018-09	Components for supply systems for consuming units with liquid fuels
DIN EN 12514-2 2000-05	Installations for oil supply systems for oil burners - Part 2: Safety requirements and tests; parts, valves pipes, filters, oil de-aerators, meters
DIN EN ISO 23553-1 2014-09	Safety and control devices for oil burners and oil-burning appliances - Particular requirements - Part 1: Automatic and semi-automatic valves
DIN EN ISO 23553-1 2022-08	Safety and control devices for oil burners and oil-burning appliances - Particular requirements - Part 1: Automatic and semi-automatic valves
DIN EN ISO 23553-1 2022-12	Safety and control devices for oil burners and oil-burning appliances - Particular requirements - Part 1: Automatic and semi-automatic valves
ISO 23552-1 2007-10 + AMD1:2010-10	Safety and control devices for gas and/or oil burners and gas and/or oil appliances - Particular requirements - Part 1: Fuel/air ratio controls, electronic type

2.3 Feste Brennstoffe

DIN EN 15270	Pellet burners for small heating boilers - Definitions, requirements,
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2008-03	testing, marking
DIN EN 303-5 2012-10	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 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 4759 2018-04	Process heat installations for more than one kind of energy - One boiler for solid fuel and one for oil or gas and only one chimney - Safety requirements and tests
DIN EN 12809 2005-08	Residential independent boilers fired by solid fuel - Nominal heat output up to 50 kW - Requirements and test methods
DIN EN 12815 2005-09	Residential cookers fired by solid fuel - Requirements and test methods
DIN EN 13229 2005-10	Inset appliances including open fires fired by solid fuels - Requirements and test methods
DIN EN 13240 2005-10	Roomheaters fired by solid fuel - Requirements and test methods
DIN EN 14785 2006-09	Residential space heating appliances fired by wood pellets - Requirements and test methods
DIN EN 15250 2007-06	Slow heat release appliances fired by solid fuel - Requirements and test methods
DIN EN 15821 2011-01	Multi-firing sauna stoves fired by natural wood logs - Requirements and test methods
DIN EN 16510-1 2018-11	Residential solid fuel burning appliances - Part 1: General requirements and test methods
DIN EN 16510-1 2023-02	Residential solid fuel burning appliances - Part 1: General requirements and test methods
E DIN EN 16510-2-1* 2021-04	Residential solid fuel burning appliances - Part 2-1: Roomheaters

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DIN EN 16510-2-1 2023-02	Residential solid fuel burning appliances - Part 2-1: Roomheaters
E DIN EN 16510-2-2* 2021-04	Residential solid fuel burning appliances - Part 2-2: Inset appliances including open fires
DIN EN 16510-2-2 2023-02	Residential solid fuel burning appliances - Part 2-2: Inset appliances including open fires
E DIN EN 16510-2-3* 2021-04	Residential solid fuel burning appliances - Part 2-3: Cookers
DIN EN 16510-2-3 2023-02	Residential solid fuel burning appliances - Part 2-3: Cookers
E DIN EN 16510-2-4* 2021-04	Residential solid fuel burning appliances - Part 2-4: Independent boilers - Nominal heat output up to 50 kW
DIN EN 16510-2-4 2023-02	Residential solid fuel burning appliances - Part 2-4: Independent boilers - Nominal heat output up to 50 kW
E DIN EN 16510-2-6* 2021-04	Residential solid fuel burning appliances - Part 2-6: Mechanically by wood pellets fed roomheaters, inset appliances and cookers
DIN EN 16510-2-6 2023-02	Residential solid fuel burning appliances - Part 2-6: Mechanically by wood pellets fed roomheaters, inset appliances and cookers
EAD 19-27-0003-08.01 2019-12-30	European Assessment Document for freestanding roomsealed heating appliances with connecting components

2.4 Fuel independent


DIN EN 60335-1 2012-10 +Cor.1:2014-04 +Cor.2:2014-11 +Bbl.1:2016-06 +A13:2018	Household and similar electrical appliances - Safety - Part 1: General requirement
DIN EN 60335-1 2020-08	Household and similar electrical appliances - Safety - Part 1: General requirement
DIN EN 60335-2-102	Household and similar electrical appliances - Safety - Part 2-102:

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2016-09	Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
DIN EN 60204-1 2019-06	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
DIN EN 15456 2008-06	Heating boilers - Electrical power consumption for heat generators - System boundaries - Measurements
DIN 4754-1 2015-03	Heat transfer installations working with organic heat transfer fluids - Part 1: Safety requirements, test
DIN 4754-2 2015-03	Heat transfer installations working with organic heat transfer fluids - Part 2: Draught diverter
DIN 4754-3 2015-03	Heat transfer installations working with organic heat transfer fluids - Part 3: Level controller
DIN EN 12897 2020-05	Water supply - Specification for indirectly heated unvented (closed) storage water heaters
DIN EN 12266-1 2012-06	Industrial valves - Testing of metallic valves - Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements
DIN EN 12266-2 2012-04	Industrial valves - Testing of metallic valves - Part 2: Tests, test procedures and acceptance criteria - Supplementary requirements
DIN EN 14597 2015-02	Temperature control devices and temperature limiters for heat generating systems
DIN EN 14459 2016-02	Safety and control devices for burners and appliances burning gaseous or liquid fuels - Control functions in electronic systems - Methods for classification and assessment
DIN EN 16340 2014-10	Safety and control devices for burners and appliances burning gaseous or liquid fuels - Combustion product sensing devices
DIN EN 16830 2017-06	Safety and control devices for burners and appliances burning gaseous or liquid fuels - Control functions in electronic systems - Temperature Control function
DIN EN 60730-1 2017-05	Automatic electrical controls - Part 1: General requirements

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DIN EN 60730-1 2021-06	Automatic electrical controls - Part 1: General requirements
DIN EN 60730-2-5 2020-01	Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems
DIN EN 60730-2-6 2020-10	Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements
DIN EN IEC 60730-2-8 2020-12	Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements
DIN EN IEC 60730-2-9 2021-01	Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing controls
DIN EN IEC 60730-2-14 2019-10	Automatic electrical controls - Part 2-14: Particular requirements for electric actuators
DIN EN IEC 60730-2-15 2020-02	Automatic electrical controls - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water
DIN EN 60730-2-19 2009-01	Automatic electrical controls for household and similar use - Part 2-19: Particular requirements for electrically operated oil valves, including mechanical requirements
DIN EN 61010-1 2020-03	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
DIN EN 61010-2-201 2019-04	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment
DIN EN 61010-2-202 2017-11	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators
DIN EN 60068-2-2 2008-05	Environmental testing - Part 2-2: Tests - Test B: Dry heat
DIN EN 60068-2-6 2008-10	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)

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DIN EN 60068-2-31 2009-04	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens
DIN EN 60068-2-75 2015-08	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests
DIN EN 60068-2-78 2014-02	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state
DIN EN 60529 2014-09 +Cor.1:2017-02 +Cor.2:2019-06	Degrees of protection provided by enclosures
DIN EN 60695-2-10 2014-04	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure
DIN EN 60695-2-11 2014-11	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products
DIN EN 60695-2-12 2019-04	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials
DIN EN 60695-2-13 2019-04	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials
DIN EN 60695-10-2 2016-01	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method
DIN EN 60695-11-5 2017-12	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance
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 12952-9 2003-04	Water tube boilers and auxiliary installations - Part 9: Requirements for firing systems for pulverized solid 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

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DIN EN 12952-16 2003-04	Water-tube boilers and auxiliary installations - Part 16: Requirements for grate and fluidized bed firing systems for solid fuels for the boiler
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 12953-12 2004-01	Shell boilers - Part 12: Requirements for grate firing systems for solid fuels for the boiler
VdTÜV Merkblatt Druck 100 2017-03	Anforderungen für die Prüfung von Druckwächtern und Druckbegrenzern
VdTÜV Merkblatt Wasserüberwachung 100 2017-03	Anforderungen für die Prüfung von Wasserüberwachungseinrichtungen
VdTÜV Merkblatt Temperatur 100 2017-03	Anforderungen für die Prüfung von Temperaturreglern, Temperaturwächtern, Temperaturbegrenzern und Thermischen Ablaufsicherungen
VdTÜV Merkblatt Strömung 100 2017-03	Anforderungen an Strömungswächter und Strömungsbegrenzer
VdTÜV Merkblatt Wasserstand 100 2018-08	Anforderungen an Wasserstandregel- und -begrenzungseinrichtungen
DIN EN 50156-1 2016-03	Electrical equipment for furnaces and ancillary equipment - Part 1: Requirements for application design and installation, also in connection with DIN EN 61508-1, DIN EN 61508-2, DIN EN 61508-3 and DIN EN 61508-4
DIN EN 50156-2 2016-03	Electrical equipment for furnaces and ancillary equipment - Part 2: Requirements for design, development and type approval of safety devices and subsystems, also in connection with mit DIN EN 61508-1, DIN EN 61508-2, DIN EN 61508-3 and DIN EN 61508-4

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VdTÜV Merkblatt Dampfkessel 467 2020-02	Hinweise für die Prüfungen von Beheizungen für Druckgeräte (Feuerungsanlagen)
DIN EN 746-2 2011-02	Industrial thermoprocessing equipment - Part 2: Safety requirements for combustion and fuel handling systems
ISO 13577-2 2014-09	Industrial furnaces and associated processing equipment - Safety - Part 2: Combustion and fuel handling systems
ISO 13577-4 2014-09	Industrial furnace and associated processing equipment - Safety - Part 4: Protective systems
ISO 13577-4 2022-07	Industrial furnaces and associated processing equipment - Safety - Part 4: Protective systems
DIN EN 62061 2016-05	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
DIN EN 62061 2023-02	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
DIN EN ISO 13849-1 2016-06	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
DIN EN 1457-1 2012-04	Chimneys - Clay/ceramic flue liners - Part 1: Flue liners operating under dry conditions - Requirements and test methods
DIN EN 1457-2 2012-04	Chimneys - Clay/ceramic flue liners - Part 2: Flue liners operating under wet conditions - Requirements and test methods
DIN EN 1806 2006-10	Chimneys - Clay/ceramic flue blocks for single wall chimneys - Requirements and test methods
DIN EN 1856-1 2009-09	Chimneys - Requirements for metal chimneys - Part 1: System chimney products
DIN EN 1856-2 2009-09	Chimneys - Requirements for metal chimneys - Part 2: Metal flue liners and connecting flue pipes
DIN EN 1857	Chimneys - Components - Concrete flue liners

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2010-08

DIN EN 1858
2011-09 Chimneys - Components - Concrete flue blocks

DIN EN 1859
2013-07 Chimneys - Metal chimneys - Test methods

DIN EN 12446
2011-09 Chimneys - Components - Concrete outer wall elements

DIN EN 13063-1
2007-10 Chimneys - System chimneys with clay/ceramic flue liners - Part 1:
Requirements and test methods for sootfire resistance

DIN EN 13063-2
2007-10 Chimneys - System chimneys with clay/ceramic flue liners - Part 2:
Requirements and test methods under wet conditions

DIN EN 13063-3
2007-10 Chimneys - System chimneys with clay/ceramic flue liners - Part 3:
Requirements and test methods for air flue system chimneys

DIN EN 13069
2005-12 Chimneys - Clay/ceramic outer walls for system chimneys - Require-
ments and test methods

DIN EN 13216-1
2019-07 Chimneys - Test methods for system chimneys - Part 1: General test
methods

DIN EN 14241-1
2013-11 Chimneys - Elastomeric seals and elastomeric sealants - Material
requirements and test methods - Part 1: Seals in flue liners


DIN EN 14471
2015-03 Chimneys - System chimneys with plastic flue liners - Requirements
and test methods

DIN EN 14989-1
2007-05 Chimneys - Requirements and test methods for metal chimneys and
material independent air supply ducts for roomsealed heating appli-
cations - Part 1: Vertical air/flue terminals for C6-type appliances

DIN EN 14989-2
2008-03 Chimneys - Requirements and test methods for metal chimneys and
material independent air supply ducts for roomsealed heating appli-
cations - Part 2: Flue and air supply ducts for room sealed appli-
ances


DIN CEN TS 16134
2011-11 Chimney terminals - General requirements and material independent
test methods

DIN SPEC 91232

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2011-11


DIN EN 16475-1 2020-07	Chimneys - Accessories - Part 1: Chimney silencers - Requirements and test methods
DIN EN 16475-2 2017-07	Chimneys - Accessories - Part 2: Chimney fans - Requirements and test methods
DIN EN 16475-3 2019-03	Chimneys - Accessories - Part 3: Draught regulators, standstill opening devices and combined secondary air devices - Requirements and test methods
DIN EN 16475-4 2020-07	Chimneys - Accessories - Part 4: Flue dampers - Requirements and test methods
DIN EN 16475-6 2020-07	Chimneys - Accessories - Part 6: Access components - Requirements and test methods
DIN EN 16475-7 2020-10	Chimneys - Accessories - Part 7: Rain caps - Requirements and test methods
DIN EN 16497-1 2015-05	Chimneys - Concrete System Chimneys - Part 1: Non-balanced flue applications
DIN EN 16497-2 2017-07	Chimneys - Concrete System Chimneys - Part 2: Balanced flue applications
DIN EN 50379-1 2013-06	Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances - Part 1: General requirements and test methods
DIN EN 50379-2 2013-06	Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances - Part 2: Performance requirements for apparatus used in statutory inspections and assessment
DIN EN 50379-3 2013-06	Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances - Part 3: Performance requirements for apparatus used in non-statutory servicing of gas fired heating appliances
VDI 4206 Blatt 1 2010-08	Performance criteria and test procedures for measuring devices for monitoring emissions at small firing installations - Measuring devices for the determination of gaseous emissions and flue gas parameters

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<p>VDI 4206 Blatt 1 2021-12</p>	<p>Performance criteria and test procedures for measuring devices for monitoring emissions at small firing installations - Measuring devices for the determination of gaseous emissions and flue gas parameters</p>
<p>VDI 4206 Blatt 2 2015-02</p>	<p>Performance criteria and test procedures for measuring devices for monitoring emissions at small firing installations - Measuring devices for the determination of particulate emissions</p>
<p>VDI 4206 Blatt 3 2010-08</p>	<p>Performance criteria and test procedures for measuring devices for monitoring emissions at firing installations - Measuring devices for the determination of smoke number</p>
<p>VDI 4206 Blatt 4 2013-08</p>	<p>Performance criteria and test procedures for measuring devices for monitoring emissions at small firing installations - Measuring devices for the determination of moisture of wood fuels</p>
<p>VDI 4206 Blatt 4 2021-04</p>	<p>Performance criteria and test procedures for measuring devices for monitoring emissions at small firing installations - Measuring devices for the determination of moisture of wood fuels</p>

Within the framework of the following regulations only tests:

<p>Delegated* Regulation (EU) Nr. 812/2013 2013-02</p>	<p>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</p>
<p>Delegated* Regulation (EU) Nr. 813/2013 2013-08</p>	<p>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</p>
<p>Delegated* Regulation (EU) Nr. 814/2013 2013-08</p>	<p>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</p>
<p>Delegated* Regulation (EU) Nr. 2015/1185 2015-04-</p>	<p>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</p>

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Delegated*
Regulation (EU)
Nr. 2015/1186
2015-04

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

Delegated*
Regulation (EU)
Nr. 2015/1187
2015-04

COMMISSION DELEGATED REGULATION (EU) 2015/1187 of 27 April 2015 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of solid fuel boilers and packages of a solid fuel boiler, supplementary heaters, temperature controls and solar devices

Delegated*
Regulation (EU)
Nr. 2015/1189
2015-04

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

3 Building automation

DIN EN ISO 16484-5
2017-12

Building automation and control systems (BACS) - Part 5: Data communication protocol (ISO 16484-5:2017);

Client device:
software on defined hardware

DIN EN ISO 16484-5
2023-02

Building automation and control systems (BACS) - Part 5: Data communication protocol (ISO 16484-5:2017 + Amd 1:2020)

Client device:
software on defined hardware

DIN EN ISO
16484-6:
2014-09

Building automation and control systems (BACS) - Part 6: Data communication conformance testing (ISO 16484-6:2014)

Client device:
software on defined hardware

DIN EN ISO
16484-6:
2022-10

Building automation and control systems (BACS) - Part 6: Data communication conformance testing (ISO 16484-6:2020)

Client device:
software on defined hardware

ANSI/ASHRAE 135-
2020


BACnet-A Data Communication Protocol for Building Automation and Control Networks

Client device:
software on defined hardware

ANSI/ASHRAE 135-
2023

BACnet-A Data Communication Protocol for Building Automation and Control Networks

Client device:
software on defined hardware


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ANSI/ASHRAE 135.1-2019	Method of Testing for Conformance to BACnet Addendum o to ANSI/ASHRAE 135.1:2019	Client device: software on defined hardware
BTL Test Plan 18.1	BACnet Testing Laboratories Test Plan Revision 18.1	Client device: software on defined hardware
BTL Test Plan 23.0	BACnet Testing Laboratories Test Plan Revision 23.0	Client device: software on defined hardware
BTL Specified Tests 18.1	BACnet Testing Laboratories Specified Tests Revision 18.1	Client device: software on defined hardware
BTL Specified Tests 23.0	BACnet Testing Laboratories Specified Tests Revision 23.0	Client device: software on defined hardware
BTL Functionality Checklist 18.1	BACnet Testing Laboratories Functionality Checklist Revision 18.1	Client device: software on defined hardware
BTL Functionality Checklist 23.0	BACnet Testing Laboratories Functionality Checklist Revision 23.0	Client device: software on defined hardware

4 Gas appliances within the scope of the product safety act (ProdSG) and EG regulation (EU) 2016/426 M

ProdSG* 2011-12	Product safety act (BGBl. I S 2178)
Regulation (EU) 2016/426*	REGULATION (EU) 2016/426 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on appliances burning gaseous fuels and repealing Directive 2009/142/EC

5 Testing of construction products within the framework of the regulation (EU) Nr. 305/2011 to establish harmonized conditions for the marketing construction products (Construction products regulation) M

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Determination / comission decision	System ¹⁾	Technical specification
1999/471/EG Space heating systems that burns solid and liquid fuels	3	EN 1:1998+A1:2007 Flued oil stoves with vaporizing burners
		EN 12809:2001+A1:2004+AC:2006+AC:2007 Residential independent boilers fired by solid fuel - Nominal heat output up to 50 kW - Requirements and test methods
		EN 12815:2001+A1:2004+AC:2006+AC:2007 Residential cookers fired by solid fuel - Requirements and test methods
		EN 13229:2001+A1:2003+A2:2004+AC:2006+AC:2007 Inset appliances including open fires fired by solid fuels - Requirements and test methods
		EN 13240:2001+A2:2004+AC:2006+AC:2007 Roomheaters fired by solid fuel - Requirements and test methods
		EN 14785:2006 Residential space heating appliances fired by wood pellets - Requirements and test methods
		EN 15250:2007 Slow heat release appliances fired by solid fuel - Requirements and test methods
		EN 15821:2010 Multi-firing sauna stoves fired by natural wood logs - Requirements and test methods
		EAD 19-27-0003-08.01:2019-12-30 2 I European Assessment Document for freestanding roomsealed heating appliances with connecting components

¹⁾ System of assessment of constancy of performance

Used abbreviations:

DIN	Deutsches Institut für Normung e.V. German institute of standardisation
EN	European standard
ISO	Institute of Standardisation
VDI	Association of German Engineers
AS	Australian Standard