DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11035-01-00 according to DIN EN ISO/IEC 17025:2005

Valid from: 14.10.2019

Date of issue: 14.10.2019

Holder of certificate:

DMT GmbH & Co. KG

with the Locations

Am TÜV 1, 45307 Essen, Germany
Tremoniastraße 13, 44137 Dortmund, Germany

for its

Testing Laboratory for refrigeration, air conditioning and heating technology
Testing Laboratory for Air Hygiene
Measurement authority "workplace measurements"

Tests in the fields:

Determination of heating and cooling capacity of air conditioners, liquid chilling packages and heat pumps;
Determination of air filtration and aerosol separation performance;
Determination of aerosols and fibrous dusts, inorganic and organic gases and vapors and selected parameters and/or in selected areas for workplace measurements in accordance with the ordinance on Hazardous Substances § 7, para. 10

1 Analysis of Testing Laboratory for refrigeration, air conditioning and heating technology / Testing of ventilation and air conditioning systems

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

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

DIN EN 1216 2003-04 + A1:2002	Heat exchangers - Forced circulation air-cooling and air-heating coils - Test procedure for establishing the performance
DIN EN 14511-3 2013-12	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods
DIN EN 14825 2016-10	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

2 Analysis of Testing Laboratory for Air Hygiene / Determination of air filtration and aerosol separation performance

DIN 18869-5 2007-08	Equipment for commercial kitchens - Components for ventilation - Part 5: Aerosol separators, requirements and testing
E DIN EN 16282-6 2014-11	Equipment for commercial kitchens - Components for ventilation of commercial kitchens - Part 6: Aerosol separators; Design and safety requirements
DIN EN 60335-2-69 2015-07 VDE 0700-69 2015-07	Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush for commercial use (here: *Annex AA - Particular requirements for vacuum cleaners and dust collectors for collecting hazardous dust*)
IEC 60335-2-40 2018-01	Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush for commercial use (here: *Annex FF - Leak simulation tests*)
IEC 60335-2-69 2018-01	Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use (here: *Annex MM - Refrigerant sensor location confirmation test*)

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3 Testing of the measurement authority "workplace measurements"

Group 1 Aerosols (without fibrous dust)	Title of standard	Standard release date	QM-Document	Comment / Location
Subarea/ *Component*			VA /AA	
Dust mass determination Respirable dust content	Respirable dust content	IFA 6068 2015-05	MSA 1.2 / SOP A06	Analytics by accredited third-party laboratory
Inhalable dust content	Inhalable dust content	IFA 7284 2003-10	MSA 1.1 / SOP A06	
Metals and metal compounds including chromium VI compounds	Dust substances (Pb, Cd, Cr, Co, Cu, Mn, Ni, V, Zn)	IFA 7808 2013-12	MSA 1.3 / AA 07-2-006 / AA 07-6-017 / AA 07-6-018	
	Chromate	IFA 6665 2014-10	MSA 1.4 / AA 07-6-012	
Simple organic ingredient	Benzo[a]pyren	NIOSH 5506 1998-10	MSA 1.7 AA 07-11338-2	
Crystalline fibrous dusts	Quarz	IFA 8522 2005-04	MSA 1.6 / SOP A04 / SOP A10	

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Group 2 Fibre dust	Title of standard	Standard release date	QM-Document	Comment / Location
Subarea/ *Component*			**VA /AA**	
Asbestos fibre	Method for the separate determination of respirable asbestos fibres and other inorganic fibres - SEM method	BGI/GUV-I 505-46 2014-02	MSA 2.1 / UBO REM BGI - GUV-I 505.46	Analytics by accredited third-party laboratory

Group 2 Fibre dust	Title of standard	Standard release date	QM-Document	Comment / Location
Subarea/ *Component*			**VA /AA**	
Other fibres	Method for the separate determination of respirable asbestos fibres and other inorganic fibres - SEM method	BGI/GUV-I 505-46 2014-02	MSA 2.1 / UBO REM BGI - GUV-I 505.46	

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Group 3 Inorganic gases and vapors	Title of standard	Standard release date	QM-Document	Comment / Location
Subarea/ *Component*			VA /AA	
Hydrogen halides and other inorganic acids	Volatile inorganic acids: Hydrogen bromide Hydrogen chloride Nitric acid	IFA 6172 2007-04	MSA 3.1 / AA 07-6-027	Analytics by accredited third-party laboratory
	Particulate inorganic acids: Phosphoric acid Sulfuric acid	IFA 6173 2016-05	MSA 3.1 / AA 07-6-027	
	Fluorides and hydrogen fluoride	IFA 7512 2006-05	MSA 3.7 / AA 07-6-035	
Other volatile hydrides	Ammonia	NIOSH 6016 1996-05	MSA 3.2 / AA 07-6-029	
Non-metallic oxides (semi-quantitativ)	Ozone	Manual by Dräger	MSA 3.6	
Continious measuring technology (semi-quantitativ)	Continious measurement of inorganic gases and vapors (CO, CO_2, NO, NO_2)	IFA 9070 2014-12 IFA 9050 2013-12	MSA 3.5 / SOP A12	

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Group 4 Organic gases and vapors	Title of standard	Standard release date	QM-Document	Comment / Location
Subarea/ *Component*			VA /AA	
Aliphatic and aromatic hydrocarbons	Hydrocarbons, aliphatic (for example Heptane)	IFA 7732 2011-11	MSA 4.3 / AA 07-6-007	Analytics by accredited third-party laboratory
	Hydrocarbons, aromatic (for example phenyl methane or Benzene or Styrene)	IFA 7733 2005-04 IFA 6265 2013-10	MSA 4.1 / AA 07-6-001	
	Hydrocarbons aromatic (Styrene)	IFA 8635 2011-05	AA 07-6-013	
Volatile halogenated hydrocarbons (LHKW)	Hydrocarbons, chlorinated (for example Dichloromethane)	IFA 6600 2006-10	MSA 4.1 / AA 07-6-001	
Ketones and esters	Ketones (for example Acetone)	IFA 7708 2005-04	MSA 4.9 / AA 07-6-009	
	Acetic acid (for example Ethylacetate)	IFA 7322 2009-05	MSA 4.6 / AA 07-6-005	
Alcohol	Alcohol (for example 2-Propanol)	IFA 8415 1997-04	MSA 4.5 / AA 07-6-004	
Aldehyde	Aldehyde (for example formaldehyde)	IFA 6045 2009-11	MSA 4.2 / AA 07-6-003	
Phenol	Phenol, cresols, furaldehyde	IFA 8330 2010-12 IFA 7540 2010-08	MSA 4.8 / AA 07-6-008	
Glycol and their derivatives	Glycol esters, glycol ethers, tetrahydrofuran	IFA 7569 2013-04 IFA 7335 2009-05	MSA 4.7 / AA 07-6-006	
Amines	Amines (for example Diethylamin)	IFA 6072 2014-04	MSA 4.10 / AA 07-6-011	
Organic acids	Organic acids (for example acetic acid)	IFA 7320 1993-10	MSA 4.13 / AA 07-6-020	

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Group 5 Selected parameters	Title of Standard	Standard release date	QM-Document	Comment / Location
Subarea/ *Component*			**VA /AA**	
Multi component systems	Solid cooling lubricants	IFA 7750 1997-11	MSA 5.1 / AA 07-6 014	Analytics by accredited third-party laboratory
Diesel engine emissions (DME)	Diesel engine emissions	BGI 505-44 1995	MSA 1.5 / SOP A01	
Further subareas / components	Diisocyanates	MDHS 25/3 1999	MSA 5.2 SOP A 05	

The listed procedures are in accordance with the requirements applying for determination of concentrations of hazardous substances. The competence for determination and evaluation of concentrations of hazardous substances in the air at work areas according to § 7, cl. 10 of Hazardous Substances Ordinance (GefStoffV) is confirmed related with the examination of sufficiently reports for

Group 1
Group 2
Group 3
Group 4
Group 5 (cooling lubricants, DME, Diisocyanate)

The analytic measurements are performed by accredited third-party laboratories.

Person in charge: Mr. M. Sc. Björn Dorn

Deputy person in charge: Mr. Dr. Renschen

abbreviations used:

BGI	Trade association information
DIN	German Institute for Standardisation
EN	European Standard
IFA	Institute for Occupational Safety
NIOSH	National Institute for Occupational Safety and Health
VDE	Association of German Electrical Engineers (Today's designation: Association for Electrical, Electronic and Information Technology)

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