STS Directory

Accreditation number: STS 0179

International standard: ISO/IEC 17025:2005

Swiss standard: SN EN ISO/IEC 17025:2005

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Initial accreditation:	05.08.1997
Current accreditation:	05.08.2017 to 04.08.2022
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 11.09.2017

Testing laboratory for thermic, fluidic and acoustic measurements of components and installations for building services equipment and acoustic material testing

Group of products or materials, field of activity	Principle of measurement [2) and 3)] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Thermic and fluidic measurements of components for building services equipment		
Heat exchangers – air to air – heat recovery components and devices	Measurement of thermal performance, pressure loss, temperature and humidity ratios and leakage [3)]	EN 308
	- air volume flow, 0.05 to 1.9 m^3/s	Eurovent Certification Company - RS 8/C/001
	- outdoor air, -5 to 35 °C	- RS 8/C/002
	- extract air, 20 to 25 °C	AHRI Standard 1060
Heat exchanger for water to water and water to air	Thermal performance and pressure loss measurements [3)]	EN 1148 EN 1216
	- air volume flow, up to 8.0 m^3/s	

1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741

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Group of products or materials, field of activity	Principle of measurement [2) and 3)] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Heat exchanger for water to water and water to air	- water mass flow, up to 4 kg/s, from 6 to 95 °C	
Air handling units	Testing of [3)] - casing air leakage - filter bypass leakage - thermal transmittance - thermal bridging	EN 1886
Residential ventilation units	Performance testing of aerodynamic characteristics and electrical power [3)]	EN 13141-4
	Testing of [3)] - leakage - thermal efficiency - effective power input	EN 13141-7 EN 13141-8 for units combined with heat pump EN 16147 and EN 14511-1 to -4 Testing rules of Passiv House Institute
Damper and valves	Aerodynamic testing [3)]	EN 1751
Industrial valves	Test of flow resistance using water as test fluid [3)]	EN 1267
Condenser tumble dryers for household use	Measuring of the energy performance per laundry mass and drying performance [3)]	BFE Messverfahren für Raumluft-Wäschetrockner, Aug. 1999
Ergonomics of the thermal environment	Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria [3)]	EN ISO 7730 ASHRAE 55
Acoustic material testing	Measurement of sound absorption in a reverberation room [2)]	EN ISO 354
Acoustic measurements of components for building services equipment		
Air-terminal devices, air-terminal units, dampers and valves	Determination of sound power levels by measurement in a reverberation room [2)]	EN ISO 5135
Ducted silencers without flow	Measurement of insertion loss, laboratory substitution method [2)]	EN ISO 11691
Ducted silencers with flow	Measurement of [2)] - insertion loss	EN ISO 7235

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Group of products or materials, field of activity	Principle of measurement [2) and 3)] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Ducted silencers with flow	- flow noise - total pressure loss	
Residential ventilation units	Measurement of sound power level [2)]	EN 13141-7 EN 13141-8 Testing rules of Passive House Institute
Components for building services equipment	**Principles of measurement**	
	Measurement of air flow [3)] 0.50 – 35'000 m^3/h	
	- differential and dynamic pressure	
	- turbine gas meter	EN 12261
	- rotary displacement gas meter	EN 12480
	- diaphragm meter	EN 1359
	- tracer gas dilution method	EN ISO 12569
	Measurement of water flow [3)] up to 10 kg/s, 6 to 90 °C	
	- differential pressure, MID	ISO EN 6817
	- water meter, up to 2.5 kg/s	
	- weighing method, up to 2.5 kg/s	ISO 4185
	- Coriolis principle, up to 5 kg/s	
	Pressure loss [3)] 5 Pa up to 16 bar	
	- manometric	EN 12599
	- piezoresistive	
	- capacitive	
	Tracer gas dilution method [3)]	EN ISO 12569
	- leakage	
	- air exchange rate, air age	
	- ventilation efficiency	

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Group of products or materials, field of activity	Principle of measurement [2) and 3)] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Components for building services equipment	**Determination of sound power levels of noise sources** [2)] Precision methods for reverberation test rooms, for broadband sound sources	EN ISO 3741

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