



STS Directory

Accreditation number: STS 0179

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

Hochschule Luzern - Technik
& Architektur (HSLU T&A)
Institut für Gebäudetechnik
und Energie (IGE)
Prüfstelle Gebäudetechnik
Technikumstrasse 21
6048 Horw

Head: Johan Verbiest
Responsible for MS: Erich Stauffer
Telephone: +41 41 349 39 56
E-Mail: johan.verbiest@hslu.ch
Internet: www.hslu.ch/ige
Initial accreditation: 05.08.1997
Current accreditation: 05.08.2022 to 04.08.2027
Scope of accreditation
see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 05.08.2022

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⁾ - air volume flow, 0.05 to 1.9 m ³ /s - outdoor air, -5 to 35 °C - extract air, 20 to 25 °C	EN 308 Eurovent Certification Company - RS 8/C/001 - RS 8/C/002 AHRI Standard 1060
Heat exchanger for water to water and water to air	Thermal performance and pressure loss measurements ³⁾ - air volume flow, up to 8.0 m ³ /s	EN 1148 EN 1216



STS Directory

Accreditation number: STS 0179

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⁾ Testing of ³⁾ - leakage - thermal efficiency - effective power input	EN 13141-4 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



STS Directory

Accreditation number: STS 0179

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	<ul style="list-style-type: none"> - 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	<p>Principles of measurement</p> <p>Measurement of air flow ³⁾ 0.50 – 35'000 m³/h</p> <ul style="list-style-type: none"> - differential and dynamic pressure - turbine gas meter - rotary displacement gas meter - diaphragm meter - tracer gas dilution method <p>Measurement of water flow ³⁾ up to 10 kg/s, 6 to 90 °C</p> <ul style="list-style-type: none"> - differential pressure, MID - water meter, up to 2.5 kg/s - weighing method, up to 2.5 kg/s - Coriolis principle, up to 5 kg/s <p>Pressure loss ³⁾ 5 Pa up to 16 bar</p> <ul style="list-style-type: none"> - manometric - piezoresistive - capacitive <p>Tracer gas dilution method ³⁾</p> <ul style="list-style-type: none"> - leakage - air exchange rate, air age - ventilation efficiency 	<p>EN 12261</p> <p>EN 12480</p> <p>EN 1359</p> <p>EN ISO 12569</p> <p>EN ISO 20456</p> <p>ISO 4185</p> <p>EN 12599</p> <p>EN ISO 12569</p>

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)

Definition of flexibility see SAS Document 741



STS Directory

Accreditation number: STS 0179

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

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. The list is available upon request at the laboratory.

In case of contradictions in the language versions of the directories, the German version shall apply.

* / * / * / * / *