



STS Directory

Accreditation number: STS 0179

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

Lucerne University of Applied
Sciences and Arts
Institute of Building Technol-
ogy and Energy
HVAC Test Lab
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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 05.09.2025

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 ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Thermic and fluidic measurements		
Heat exchangers – air to air – heat recovery compo- nents and devices	Measurement of thermal perfor- mance, pressure loss, temperature and humidity ratios and leakage	EN 308 Eurovent Certita Certification - ECP 08 - ECP 10 AHRI Standard 84 AHRI Standard 1060
Heat exchanger for water to water and water to air	Thermal performance and pres- sure loss measurements	EN 1148 EN 1216
Industrial valves	Test of flow resistance using water as test fluid	EN 1267
Damper and valves	Aerodynamic testing	EN 1751



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Air handling units	Testing of <ul style="list-style-type: none"> - mechanical strength of casing - casing air leakage - filter bypass leakage - thermal transmittance - thermal bridging 	EN 1886
Ergonomics of the thermal environment	Analytical determination and interpretation of thermal comfort: <ul style="list-style-type: none"> - PMV and PPD indices - Criteria for local thermal comfort 	EN ISO 7730 ASHRAE 55
Room airtightness and indoor air quality	Tracer gas dilution method <ul style="list-style-type: none"> - leakage - air exchange rate, air age - ventilation efficiency 	EN ISO 12569
Unidirectional ventilation units	Testing of <ul style="list-style-type: none"> - leakage - thermal efficiency - effective power input 	EN 13141-4
Residential ventilation units	Testing of <ul style="list-style-type: none"> - 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 Passive House Institute
Acoustic measurements		
Determination of the sound power level of noises	Reverberation test rooms method	EN ISO 3741 EN ISO 3747
	Enveloping surface method	EN ISO 3744 EN ISO 3745 EN ISO 3746
	Intensity method	EN ISO 9614
Air handling units	Determination of the insertion loss of the housing	EN 1886
Air-terminal devices, air-terminal units, dampers and valves	Determination of sound power levels	EN ISO 5135
Ducted silencers without/with flow	Determination of <ul style="list-style-type: none"> - insertion loss - passage attenuation - flow noise - total pressure loss - flow resistance 	EN ISO 7235 EN ISO 9053

Swiss Confederation

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Ducted silencers without flow	Determination of insertion loss	EN ISO 11691
Heat pumps, chillers	Determination of sound power levels	EN 12102
Residential ventilation units	Measurement of sound power level	EN 13141-7 EN 13141-8 Testing rules of Passive House Institute
Industrial fans	Determination of sound power levels	EN ISO 13347
Building services installations	Determination of sound power levels	SIA 181 EN ISO 16032
Acoustic material testing	Determination of sound absorption in a reverberation room	EN ISO 354 EN ISO 11654 ASTM C423
	Determination of sound absorption in components and buildings	SIA 181 EN ISO 3382 EN ISO 11546 EN ISO 15186 EN ISO 16283

The testing laboratory shall maintain a list with detailed information on the activities within the scope of accreditation. The list is available on request from the laboratory.

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

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