



ABOUT US

We are **accredited air-testing institute** focused on measurement of HVAC devices:

- *Ventilation and units with heat recovery*
- *Ventilation systems for residential and industrial buildings, family houses and flats, kitchens*
- *Fans*
- *Ducts, dampers, air curtains, filters...*



WE OFFER

- Accredited and non-accredited measurements of aerodynamic, thermodynamic, acoustic, electrical and mechanical parameters of air handling devices according to related standards
- Customized measurements based on customer's requirements involved in air handling branch
- Acoustic measurements of devices (not only air handling)
- Issuing of accredited test report accepted in 104 economies (ILAC MRA signatories)
- Issuing of standard test report
- Testing and reports for submission to achieve certifications (Passive House Institute, Eurovent, EPB)
- Consultations and professional opinions on search of technical solutions

nová
zelená
úsporám



AIR-LAB

air-testing institute

www.air-lab.org



HISTORY

- **2013** – foundation of company Air-lab s.r.o.
- Since **2014** – accredited according EN ISO/IEC 17025
- Moving to new modern building, extension by reverberation room
- Establishing contacts with laboratories in the Czech Republic and Europe (University Centre for Energy Efficiency Buildings at Czech Technical University in Prague, Centre for Integrated Building Technology at Lucerne University of Applied Sciences and Arts)
- **2018** – extension of laboratory area to more than 700 m²



PRESENT

- Accredited according to EN ISO/IEC 17025:2017
- 9 accredited tests
- Equipment and testing devices for air-flows up to 15 000 m³/h
- Building of a new measurement stand for thermodynamic measurements



QUALITY

- Guaranteed by regular defense of the Certificate of Accreditation issued by the national accreditation body – Czech Accreditation Institute
- Based on experience of qualified technicians
- Enabled due to high quality equipment (AHLBORN, Vaisala, Rosemount, MATTECH, Brüel & Kjær, Endress + Hauser)
- Confirmed by interlaboratory comparison tests



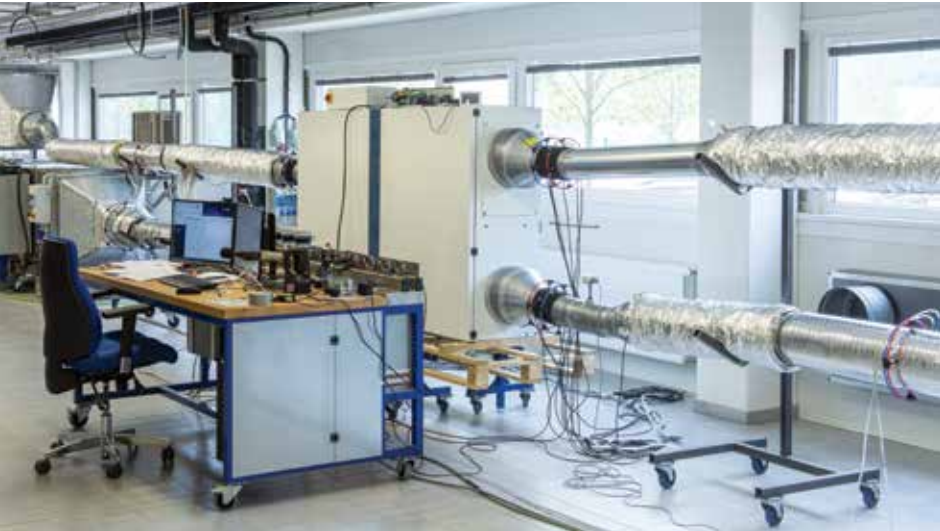


OVERVIEW OF ACCREDITED TESTS

Ordinal number	Test procedure / method name	Test procedure / method identification	Tested subject
1	Measurement of air performance using standardized airways	<i>EN ISO 5801</i>	<ul style="list-style-type: none"> • Fans • Air-handling equipment
2	Performance testing of components / products for ventilation of buildings	<i>EN 13141-4</i> <i>EN 13141-7</i> <i>EN 13141-8</i>	<ul style="list-style-type: none"> • Fans for residential ventilation systems • Mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings • Mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for a single room • Components / products for residential ventilation
3	Measurement of efficiency of heat regeneration equipment	<i>EN 308</i>	<ul style="list-style-type: none"> • Air to air heat exchangers • Recuperators • Regenerators
4	Measurement of sound power level radiated into a duct	<i>EN ISO 5136</i>	<ul style="list-style-type: none"> • Fans • Air-handling equipment
5	Measurement of sound power level of noise sources	<i>EN ISO 3741</i> <i>EN ISO 3743-2</i> <i>EN ISO 3746</i> <i>ISO 9614-2</i> <i>EN ISO 3744</i>	<ul style="list-style-type: none"> • Machinery • Air-handling equipment • Noise sources
6	Measurement of mechanical properties	<i>EN 1886 (art. 5-9)</i>	<ul style="list-style-type: none"> • Air-handling equipment
7	Aerodynamic testing	<i>EN 1751</i>	<ul style="list-style-type: none"> • Air-handling dampers and valves
8	Measuring of air flow rate and pressure drop in a duct	<i>EN 5167-1</i>	<ul style="list-style-type: none"> • Machinery • Air-handling equipment • Ductwork products for air conveying
9	Measuring of sound loss	<i>EN ISO 11546-2</i> <i>EN ISO 11820</i> <i>ISO 10847</i>	<ul style="list-style-type: none"> • Machinery and equipment enclosures • Active and passive silencers of all types • Outdoor noise barriers



AIR-LAB



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