



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, filters...*



WE OFFER

- Measurements of aerodynamic, thermodynamic, acoustic, electric and mechanical parameters of air handling devices according to related standards in scope of accreditation
- Customized measurements based on customer's requirements involved in air handling branch (out of scope of accreditation)
- Acoustic measurements of devices (not only air handling units)
- Issuing of accredited test report accepted in more than 100 economies (ILAC MRA signatories)
- Measurement and issuance of test reports as a basis for obtaining industry certificates



AIR-LAB
air-testing institute



www.air-lab.org



HISTORY

- **2013** – foundation of company Air-lab s.r.o.
- Since **2014** – accredited according ČSN EN ISO/IEC 17025
- Moving to new modern building, extension by reverberation room
- Establishing contacts with laboratories and universities in the Czech Republic and Europe
- **2018** – extension of laboratory area to more than 700 m²



PRESENT

- Accredited according to ČSN EN ISO/IEC 17025:2018
- 9 tests in scope of accreditation
- Equipment and testing devices for air-flows up to 15 000 m³/h



QUALITY

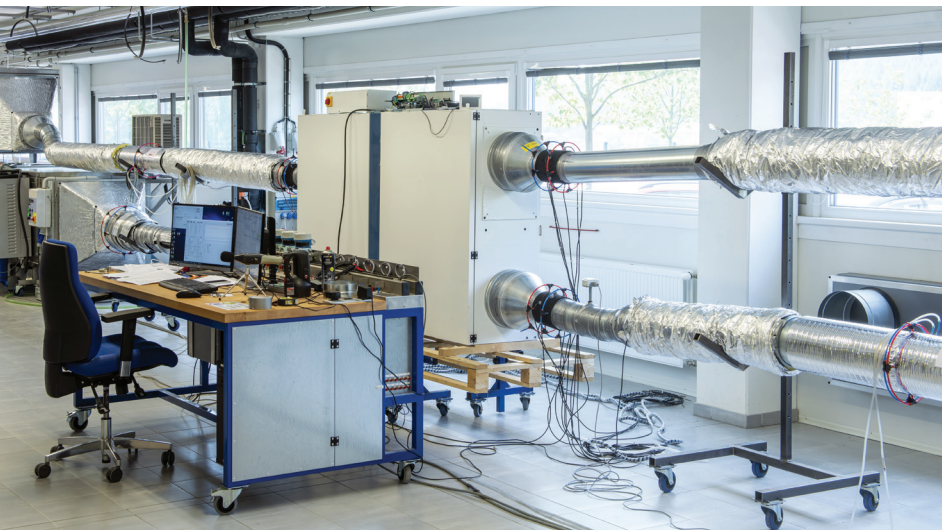
- Guaranteed by regular defense of the Certificate of Accreditation issued by the national accreditation body – Czech Accreditation Institute
- Based on experience of professionals
- Enabled due to high quality equipment (AHLBORN, Vaisala, Rosemount, MATTECH, Brüel & Kjær, Endress+Hauser, Sensit)
- Confirmed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





OVERVIEW OF TESTS IN SCOPE OF ACCREDITATION

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 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 ISO 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



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