

TZWL test laboratory

TZWL is an internationally active test laboratory for residential ventilation units and heat pumps.

On our test stands we conduct unit examinations for German approvals (accredited by Deutsches Institut für Bautechnik, DIBt) according to current testing regulations and according to Passivhaus (passive house) certificates. We furthermore test according to European standards (DIN) EN 13141-7/8 (e.g. for EcoDesign-Labeling) as well as other standards on request.

In Germany, the current regulations for ducted ventilation units are LÜ-A Nr. 21-1/2 and 22, composed by the Deutsches Institut für Bautechnik (DIBt) and basing on the DIN EN 13141-7/-8.

Besides testing for approvals and certificates we offer research and development tests. As managing test laboratory we conducted the research project „Round Robin Tests: Inter-Method-Reliability of test methods at three test laboratories for energetic evaluation of non-ducted ventilation units with reversible direction of fan rotation“ for the DIBt.

We operate the following test stands:

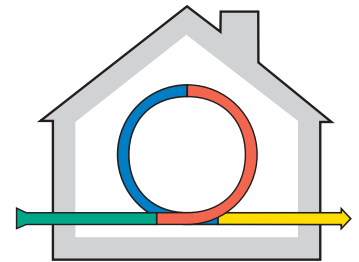
- Leakage rate test stand, measuring external and internal leakage rates, Testing by pressure method
- Leakage rate test stand, measuring external and internal leakage rates, testing by tracer gas method
- Ventilation practice test stand, examining the ventilation performance (according to DIN 18017 and DIN EN ISO 5801, specific fan power)
- Thermodynamic test stands, measuring the heat and humidity recovery rates and the efficiency of frost protection

The operational area of our test laboratory is:

- Volume flows from 2 up to 400 m³/h
- Temperatures from -20 up to +30 °C
- relative humidity from 10 to 90 percent
- electric power input of up to 7.200 W

Working in close collaboration with DMT GmbH, part of TÜV Nord group, we also perform testings of non-residential ventilation units with an operational range of up to 100.000 m³/h according to German and European regulations, e.g. Eurovent. This long-term cooperation also enables us to conduct acoustic testing on external test stands.

Are you interested in testing with us or need further information about our testing range? Please contact us (see contact data on the right). We are looking forward to your request and hope to welcoming you in our laboratory soon.



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