



Accreditation in accordance with ISO 13350 and new thrust test rig

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TÜV SÜD – efficient testing of jet fans and impulse fans

Munich. TÜV SÜD is the first testing laboratory worldwide to be accredited for performance testing of jet fans in accordance with the standard ISO 13350. An innovative, newly designed thrust test rig for jet fans enables the experts at the testing laboratory for refrigeration and air-conditioning systems to measure several parameters in parallel, thereby significantly reducing time and cost expenditure.

Jet fans are used for ventilation of buildings subject to special conditions and/or requirements, such as car park decks and underground car parks, which require permanent and needs-based ventilation to keep the concentration of airborne pollutants as low as possible. A controlled exchange of air must also be ensured in large-scale industrial halls, where prevailing conditions may include a high level of air humidity or air consumption. In the laboratory for refrigeration and air-conditioning equipment of TÜV SÜD Industrie Service GmbH, the experts check whether the fans used for this purpose meet the requirements of the applicable standards and directives. The TÜV SÜD testing laboratory has now been accredited for performance testing of jet fans in accordance with the standard ISO 13350, the first laboratory worldwide to receive the status.

In the testing laboratory for refrigeration and air-conditioning systems, measurements of jet fans are carried out on a test rig developed in-house by the TÜV SÜD experts. As a special highlight, the thrust test rig offers the possibility of measuring several parameters in parallel. “We can verify, for example, that the fans generate the required thrust and that the vibration values are in compliance with the standards”, says the global senior expert Dipl.-Ing. Sebastian Rieger, responsible for acoustics, noise and vibrations testing at TÜV SÜD Industrie Service GmbH. Parallel combination of measurements makes for highly efficient tests, “which saves time and money”, as the TÜV SÜD engineer emphasises. Moreover, parallel measurement of multiple parameters at the same operating point also improves the comparability of values, thereby further optimising the quality of measurements.

TÜV SÜD testing laboratory for refrigeration and air-conditioning systems

In Olching near Munich, TÜV SÜD Industrie Service GmbH operates Europe's largest independent testing laboratory for refrigeration and air-conditioning systems, with floor space of 8,500 square metres. Products tested in the laboratory range from air-conditioning and ventilation units, retail refrigeration units and heat pumps to individual components such as heat exchangers, condensing units, fans and fittings. Another important focus area of the laboratory is the testing of equipment used in temperature-controlled transport of food and pharmaceutical products and for ensuring that the cold chain is maintained in logistics. The activities and tests of the TÜV SÜD experts ensure that the equipment and components are in compliance with the applicable national and international standards and directives governing safe, fault-free and energy-efficient operation.

Further information is available at www.tuvsud.com/hvacr.

Note for editorial staff: The press release is available on the Internet at www.tuvsud.com/newsroom.

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