

TÜV SÜD at Chillventa 2022

27 September 2022

Ensuring safe, reliable and eco-friendly operation for refrigeration and air-conditioning systems

Munich/Nuremberg. TÜV SÜD will present its extensive range of services in the fields of refrigeration and air-conditioning technology and technical acoustics at Chillventa, to be held from 11 to 13 October 2022 in Nuremberg. This year the company will focus on the application of technical monitoring services for energy optimisation of installations. (Hall 9, Stand 9-340).



TÜV SÜD Industrie Service operates the largest independent European testing laboratory for refrigeration and air-conditioning technology in Olching near Munich. The laboratory's 8,500 square metres are home to teams of experts who test the safety, reliability and environmental compatibility of cooling and refrigeration equipment and components. Technical and performance tests are conducted in 10 climatic chambers of various sizes, spanning temperatures from -40°C to + 50°C. Testing covers air-conditioning systems and ventilation systems, but also equipment, heat pumps and individual components including heat exchangers, condensing units, fans and fittings.

A special feature of the refrigeration and air conditioning laboratory in Olching is the state-of-the-art CO₂ test rig, where refrigeration systems using CO₂ as environmentally friendly refrigerant and their components are tested under realistic conditions for evaluation of their energy consumption, capacity and functionality. Manufacturers receive clear, robust performance data for their products, enabling optimised operating costs and generating the trust and confidence of the systems' users.

Technical monitoring for energy optimisation

Optimisation of energy costs is also the focus of a new service that TÜV SÜD will present at Chillventa. Technical monitoring (TMON) enables TÜV SÜD experts to detect existing malfunctions and potentials for optimisation in technical systems of buildings and their individual components, both prior to and

during operation. For TMON to work, the data generated by the various systems and equipment must be provided in a uniform structure, with data communication and transmission preferably based on a standardised protocol like BACnet®.

Technical acoustics

Acoustic emissions are produced by refrigeration and air-conditioning systems and equipment, but also by household appliances like coffee machines, pressure washers and food processors as well as other consumer goods. TÜV SÜD's state-of-the-art sound testing laboratory supports manufacturers by documenting their products' compliance with a host of statutory specifications and thresholds. The company's technical acoustics services include measurement of sound power levels, measurement of emission sound pressure level in workplaces, acoustic measurements in accordance with customer requirements in the laboratory and on-site, and acoustic measurements under the Outdoor Directive 2000/14/EC and applicable conformity assessment procedures.

Note for editorial teams: This press release and the photo of the CO₂ test rig can be downloaded in print-ready resolution from www.tuvsud.com/newsroom.

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