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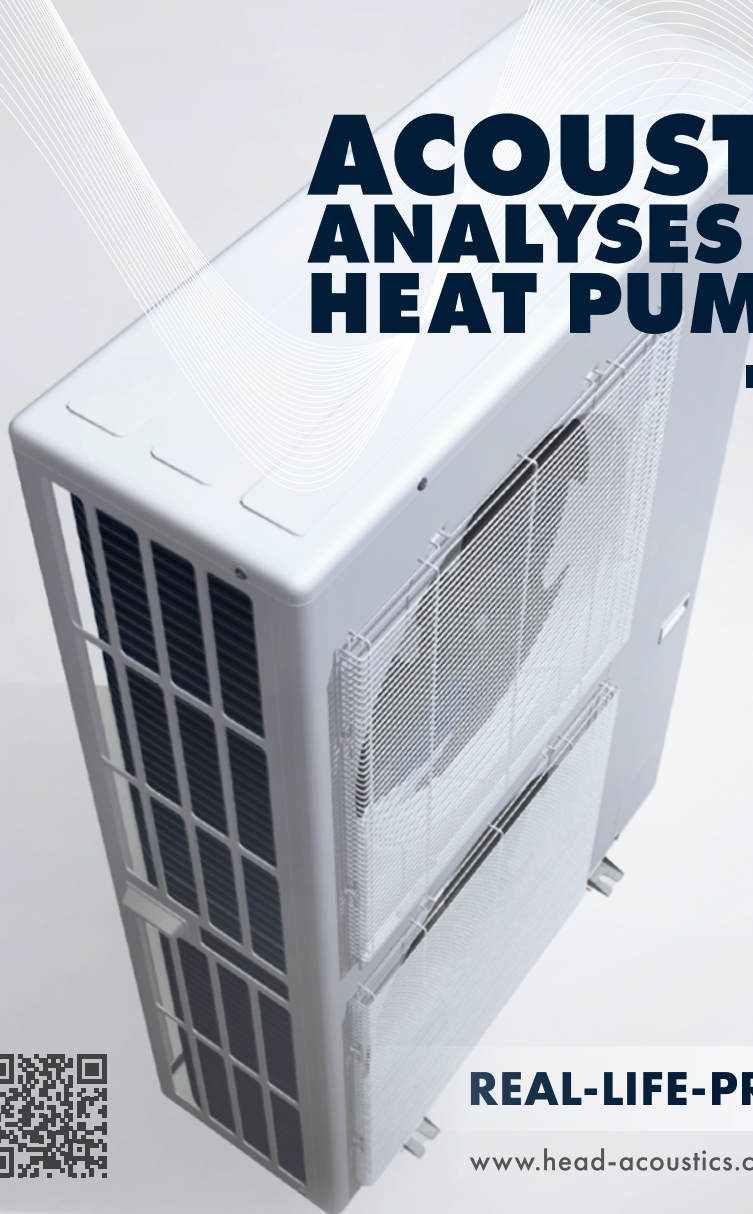
USA

HEAD acoustics, Inc.

✉ info@headacoustics.com



ACOUSTIC ANALYSES OF HEAT PUMPS



REAL-LIFE-PROOF.

www.head-acoustics.com  

**HEAD acoustics offers
a comprehensive technology,
tool, and solution portfolio
for acoustic analyses and
optimizations that also per-
fectly meets the requirements
of heat pump development.**

Engineering Service

We support the entire product development process, including the analysis of the perceived sound quality and the definition of acoustic targets, as well as detailed system analysis to describe the acoustic behavior, derive optimization potential, and break down targets to the component level.



Sound Quality Analysis & Target Setting

Benefit from our binaural recording and playback technology! We provide extensive and comprehensive tools and services for jury testing, developing sound quality metrics (also in EOL tests), and state-of-the-art psychoacoustic evaluation based upon the Sottek Hearing Models, such as loudness, roughness (ECMA 418-2, 2nd), and tonality (ECMA 418-2, 2nd & ECMA 74, 15th /17th).

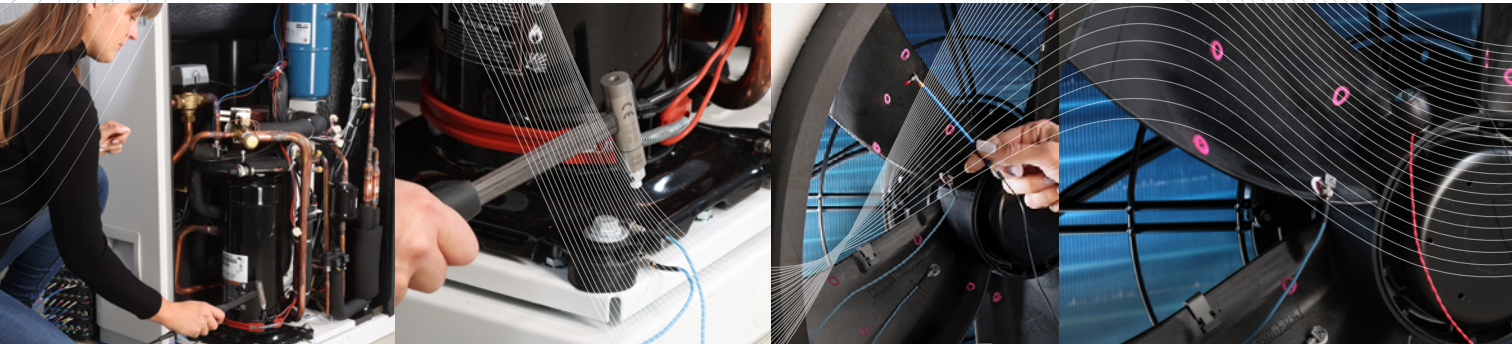


Sound Power

Determine the Sound Power of your appliance based on sound pressure level (ISO 3740 series) or sound intensity (ISO 9614) with ease! We provide software solutions, data acquisition systems, hardware, and services for hemisphere (sound pressure level) measurement setups, as well as user-friendly Augmented Reality tools for sound intensity measurements.

Sound Source Localization

With HEAD VISOR, we provide you with a flexible and efficient acoustic camera toolset. See what you hear and locate sound sources fast, intuitively, and reliably. You can even analyze rotating components (e.g., fans) by automatically compensating for their rotation.



TPA & Simulation

Using transfer path analysis (TPA), we identify relevant noise sources and the associated excitation forces (blocked forces) with the transfer paths and predict the resulting noise, taking into account component changes or CAE simulations. The results help to efficiently improve your product and speed up the NVH development process.

Structural Analysis

Whether you want to validate and compare simulation models or enhance your understanding of dynamic behavior, the AI-supported HEAD structural analysis solution provides an intuitive and user-friendly toolkit. Investigate the deflection shapes for different operation conditions with our ODS tool to expand your understanding of the system.