

Trane Acoustics Program (TAP™)



Comprehensive HVAC acoustical analysis



Solving predictive algorithms for acoustics can be tedious, time-consuming and iterative—especially when one or more paths need further attenuation. TAP was developed to help designers perform these calculations quickly and accurately, allowing you to rapidly create and refine the source–path–receiver model to minimize sound levels that reach a building occupant’s ears.

TAP is an acoustical modeling software tool that makes it easy to accurately predict how sound from HVAC equipment will impact the building’s occupants and neighbors. TAP can compare the sound characteristics of several system alternatives—allowing you to determine the quietest, most cost-effective design for your clients’ project or building.

Complex made easy

TAP allows you to build sound paths by choosing specific equipment and building components that generate or attenuate sound. Using the latest ASHRAE algorithms, TAP projects equipment sound data through the surroundings (ductwork, walls, floors, ceilings) to estimate what the human ear will hear (dBA) as well as the noise criteria (NC) or room criteria (RC) level. Dialog boxes let you further refine component attributes. As components are added, moved, changed or deleted, the program dynamically recalculates the resulting sound pressure levels and displays changes for each component by octave band.

After the analysis is complete, you can view and print reports, detailed tables, NC or RC charts, or a combination of these formats.

More program features

- Visual modeling of equipment (fans, diffusers, etc.) and building components (ceilings, walls, ductwork, etc.) in each sound path.
- Library of sound data available for Trane products, plus a “custom element” option to model equipment not found in the library.
- Multiple-path analysis—e.g. discharge airborne, discharge breakout and unit-radiated sound.
- Calculates NC, RC, and dBA ratings for each path and sum.
- Enables a quick comparison of calculated sound levels with the desired NC value.
- Documentation and support to quickly get you started—manual, tutorials, templates and more.

Multifaceted support

Like all Trane products, a TAP license comes with world-class support. A team of dedicated engineers and support specialists will answer your questions and help you discover the best solution for your HVAC design. In addition to unlimited technical support, you will receive access to our online knowledge base, newsletters, webinars and more. Training sessions are also available. Visit www.tranecds.com.

Try it for free

To download free trial software, visit www.trane.com/tap or call C.D.S. Support: 608.787.3926.



LEED® for Schools

TAP acoustical models can be used to show design verification for LEED® for Schools for New Construction and Major Renovations 2009 edition. LEED contains both a prerequisite for classroom acoustics and the potential for earning one point for improved acoustical design. Both allow compliance by following the methodology in ANSI Standard S12.60-2002, *Acoustical Performance Criteria, Design Requirements and Guidelines for Schools*. TAP can be used to meet both the prerequisite and earn credit.

Visit www.trane.com/acoustics



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