Decibel level and sound quality is a very important differentiator for an OEM. Our Acoustic Technology Center helps our customers meet their goals by identifying thermal and acoustic problems, developing a solution package, modeling results and validating outcomes in commercial vehicles, aerospace, durable goods and electronics.

Our methodology is very simple – Concept → Model → Verify → Produce. The execution is very intricate and complex. The initial step is to definitely understand all the potential noise levels and sources. This information is generated by a variety of testing in our hemi-anechoic dynamometer room, hemi-anechoic room or one of our reverberant chambers. These rooms allow for measurement of either entire systems or components within the system.

The next step is in situ testing of the proposed package. The use of CAD modeling in conjunction with in situ testing eliminates the trial-and-error testing model and validates the anticipated outcome of the solution package. The resulting package meets both your cost goals and engineering requirements.

The key element in optimizing thermal acoustic systems is the utilization of our Acoustic Technology Center. The convergence of thermal and acoustic requirements, managing cost goals and keeping treatment weight at a minimum is always the optimal outcome.

The ATC is also used for continual product development. Product analysis in our hemi-anechoic rooms and our reverberant chambers help fine-tune the properties in our materials to meet very specific application needs.

Determining the effectiveness of the proposed solution package is the vital final step in our process. Once we determine the proposed package, we test the solution set to confirm that all thermal and acoustic goals have been met. The capability to measure the in situ performance and make necessary modifications on-the-fly ensures the most efficient and effective package in the most timely manner.

**COMPLEX SYSTEM EVALUATION LEADS TO EFFICIENT ACOUSTIC AND THERMAL PACKAGES**

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