



Why all the noise?

Did you know most of the global automotive and commercial vehicle OEMs and suppliers look to Exa for aerodynamic, aeroacoustic and thermal management simulations? Join what many engineers have already discovered — with Exa simulations you can quickly, efficiently and accurately design the quietest, most efficient fans and products with embedded fans.

Noise generation is, by definition, a transient phenomenon and simulating it accurately in a reasonable time frame has historically been difficult. Exa's fully transient simulations allow accurate, predictable results helping companies reduce fan noise that impacts everyone from the vehicle operator to the community.

PowerFLOW® simulations accurately predict both tonal and broadband noise due to its inherently transient lattice Boltzmann physics and rotating machinery capabilities — allowing customers to routinely perform complex aeroacoustic simulations within tight time constraints. Exa's easy-to-use aeroacoustic analysis and state-of-the-art 3D visualization software applications, PowerACOUSTICS® and PowerVIZ®, work with PowerFLOW to provide engineers detailed insight into noise sources.

At Exa Corporation, we've spent over twenty years developing solutions that not only improve the design engineering process...but redefine it. Please contact us to learn more about our fan noise and other simulation solutions. Stop by our booth for a demonstration and come hear what we have to offer. We want to help you keep the noise down and deliver quiet, efficient products.

