



Ventiva Demonstrates Silent and Cool PC Concept with ICE technology at CES

Ventiva ICE technology replaces mechanical fans with electronic airflow, showing off a proof-of-concept laptop design that's thin, silent, and totally cool.

FREMONT, Calif. – January 6, 2025 – [Ventiva®](#), the leader in thermal solutions, today announced that its Ventiva ICE9® thermal management suite is being featured in a proof-of-concept laptop design at CES. By collaborating with Dell Technologies and Intel on the PC design, this concept introduces a new level of silent productivity for sub-12mm laptops.

“Having embarked on a quest to banish fans from laptops, the team at Ventiva is proud to show the first public demonstration of those efforts,” said Carl Schlachte, Chairman, President and CEO, Ventiva. “This design is proof that laptop users no longer need to hear mechanical blowers or tolerate their CPUs throttling down when running certain tasks. Dozens of engineers at Dell, Intel, and Ventiva worked on every facet of the design with a singular goal: to produce a laptop that is utterly silent, thin, and totally cool—and we did it. The end of the fan is in sight.”

Ventiva’s ICE9 thermal management suite is based on the company’s patented [Ionic Cooling Engine \(ICE®\)](#) technology, which eliminates the need for mechanical fans, using intelligent software control to enable optimal performance in electronics devices—without any moving parts, noise, or vibration. The ultra-compact ICE9 solution enables laptop designs with a height of less than 12 mm, rivaling the thinnest laptops on the market today. Its space-efficient form factor not only supports sleek, thin designs but also provides original equipment manufacturers (OEMs) with the flexibility to integrate additional functionalities into their products.

About ICE Technology

Ventiva’s patented ICE technology generates movement of air without any moving parts, noise, or vibration, leveraging the principles of electrohydrodynamic (EHD) flow to move ionized air molecules within an electric field. The ICE9 thermal management suite offers a “smart” cooling solution that continuously monitors its operation, delivering more or less airflow as an electronic system requires. Combining advanced monitoring and algorithms, the ICE9 suite’s real-time

software can be combined with overall system performance monitoring to provide a robust device-wide thermal solution.

About Ventiva

Ventiva, a leading company in active cooling solutions for electronic devices, enables thinner, faster, and cooler high-performance devices that are lightweight, silent, and vibration-free. The company's patented ICE® technology is a pioneering all-electronic heat transfer technology created to address the thermal problems exacerbated by modern high-performance semiconductor design. Learn more at www.ventiva.com or follow us on [LinkedIn](#).

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