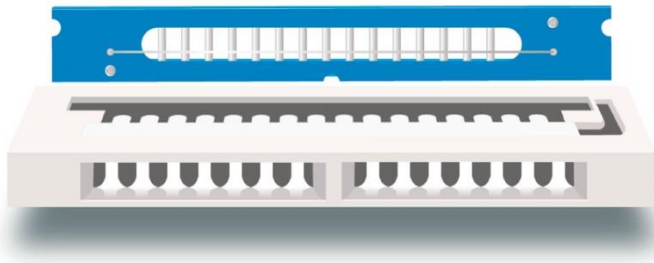


Absolute EMS and Ventiva: A Winning Partnership in Advanced Thermal Management



Absolute EMS, an electronics contract manufacturer, has partnered with Ventiva, a leading company in active cooling solutions for electronic devices, to build their revolutionary Ionic Cooling Engine (ICE®). ICE is a cutting-edge cooling technology that promises to redefine thermal management in electronics. This collaboration highlights Absolute EMS's capabilities in precision manufacturing and their commitment to providing exceptional customer service, while showcasing Ventiva's innovative technology.

Established in 1996 and headquartered in Santa Clara, CA, Absolute EMS has built a reputation as a trusted provider of turnkey contract manufacturing services. Specializing in the entire lifecycle of product development—from New Product Introduction (NPI) to end-of-life—Absolute EMS ensures the highest quality and precision in every product. Their state-of-the-art facility offers touchless manufacturing, automated first article inspection, and in-line inspection capabilities such as 3D Solder Paste Inspection, (SPI), AOI and X-ray technology, upholding stringent standards of excellence. “The product that Ventiva is bringing to market is a leading-edge product that will change the industry,” stated Doug Dow, COO at Absolute EMS. “We’re proud to create top tier manufacturing processes to support their success. Our commitment to our customer relationships, excellence and innovation enables us to meet the rigorous demands of this advanced technology.”

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Absolute EMS's certifications, including ISO 13485:2016, AS9100 Rev D, and ISO 9001:2015, demonstrate their dedication to high reliability manufacturing. Their expertise spans various industries such as medical, military, industrial, networking, and engineering, providing customized quality reporting, device history record keeping, and traceability to the component level.

Ventiva, based in Silicon Valley, is known for its groundbreaking Ionic Cooling Engine (ICE[®]) technology. Developed over a 12-year period, ICE[®] represents a quantum leap in thermal management by moving air without moving parts, noise, or vibration. Utilizing electrohydrodynamic (EHD) flow, ICE[®] generates a potent "solid-state" cooling force suitable for up to 30-Watts Thermal Design Power (TDP) systems.

"Our technology addresses the limitations of conventional cooling solutions in laptops, handheld devices and other high-performance electronics. ICE provides a silent, ultra-compact, and vibration-free alternative for the AI enabled world," explained Tim Lester, COO at Ventiva.



The partnership between Absolute EMS and Ventiva is a testament to the synergy between advanced manufacturing capabilities and cutting-edge technology. Absolute EMS' role in manufacturing Ventiva's ICE[®] technology involves not only creating the electronics board that powers the device but also producing the unique blower component—a task requiring exceptional precision and flexibility.

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“We chose Absolute EMS for their flexibility and willingness to help us in a new category where nobody has manufacturing experience,” added Lester. “Their support has been crucial in speeding up our production iterations and ensuring high-quality outputs.”

As the demand for more efficient, silent, and compact cooling solutions grows, the collaboration between Absolute EMS and Ventiva is poised to make significant impacts in the electronics industry. Ventiva’s ICE® technology is set to replace traditional fans in various applications, starting with laptops and eventually extending to handheld devices, VR headsets, and more.

“We are excited about the potential of ICE® technology and the role it will play in future electronic devices,” added Doug Dow. “Our partnership with Ventiva exemplifies our commitment to supporting innovative technologies and helping our customers succeed in competitive markets.”

The collaboration between Absolute EMS and Ventiva showcases the best of both worlds: advanced manufacturing capabilities and groundbreaking thermal management technology. Together, they are set to revolutionize the way electronic devices are cooled, paving the way for quieter, more efficient, and more compact electronics.

About Absolute EMS

Absolute EMS, located in the heart of Silicon Valley, offers award-winning manufacturing services in a state-of-the-art, high-technology EMS facility. The company won Global Technology Awards in 2020 and 2021 for its manufacturing services and was awarded ‘Most Improved Smart Factory’ by the Global Technology Awards in 2021. Founded in 1996, Absolute EMS originally serviced the medical industry, thus their focus on controlled manufacturing that is scalable and repeatable. The Absolute EMS focused verticals are Medical, Military, Industrial, Networking, and Engineering.

absolute-ems.com

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.

ventiva.com

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