



COMPANY & PRODUCT OVERVIEW

Founded in 1988, SprayCool® is a recognized leader in the development of advanced thermal management solutions for the Defense and Intelligence community. Unique for its patented two-phase cooling technology, SprayCool has revolutionized how electronics are enabled for use in harsh environments, and works through leading integrators to meet the military's most demanding requirements for airborne, shipboard and land based applications. Through its products and technology, SprayCool accelerates and facilitates the development and delivery of electronic system solutions for environments challenged by heat, size, weight, and power restrictions. SprayCool is a privately held corporation headquartered in Washington State.

SPRAYCOOL TECHNOLOGY ([WEB LINK](#))

SprayCool patented technology uses a fine mist of non-corrosive, non-conductive liquid, sprayed in a thin layer, which evaporates and cools electronics. The process continuously cycles within a sealed, closed loop system. In doing so, SprayCool products isolate the electronics from dirty, corrosive environments found in military and industrial applications resulting in cooler, higher performance, and more durable electronic devices. The company's customers are using SprayCool System Solutions to enable both current and next-generation electronics.

SPRAYCOOL BENEFITS

- Extends operating temperature range
- Enhances processor performance at elevated temperatures
- Increases power efficiency
- Alleviates design constraints related to size, weight and power
- Improves reliability through rugged enclosure, case design and lower junction temperature
- Reduces design cycle time associated with electronic components obsolescence

SPRAYCOOL SERIES OF PRODUCTS & APPLICATIONS

The SprayCool series of rugged products are designed to meet the most demanding operating environments across the military's multiple vehicle platforms in airborne, land and shipboard environments. Addressing the full spectrum of C4ISR applications, the company has been awarded several significant military contracts through today's leading integrators, for product placed in UAV's, helicopters, fixed wing aircraft and ground based vehicles.

SPRAYCOOL® SERIES OF PRODUCTS & APPLICATIONS (CONT'D)

ENCLOSURES ([WEB LINK](#))

The SprayCool Multi-Platform Enclosure (MPE) family of products is unprecedented in its flexibility, allowing the customer to combine legacy or proprietary electronics with commercial grade electronics in the same enclosure. Scalable and available in 4-21 slot configurations, the MPE also offers unparalleled flexibility in accepting electronic cards designed for air or conduction cooling without any modifications, which translates directly into lower costs and faster development cycles for integrators and their military customers.

The MPE is currently in use in a variety of airborne applications, including the U.S. Air Force's U-2, Global Hawk, and Predator platforms. Uniquely suited for unpressurized environments, the MPE offers the only solution for traditionally air cooled cards to operate at altitudes of 70,000 feet, with no dedicated environmental control system installed.

19-INCH RACK SOLUTIONS

SprayCool modular rack solutions are based on a family of system components, SprayModules™, fluid I/O, thermal management units and SprayCool cabinets. Systems are characterized by spot cooling of processors and other electronics, and can be configured and scaled up to 42U rack heights for data center, shipboard and other applications. The 19" rack solution is targeted for high performance computing and small data center applications for 1U and 2U servers.

SEALED TRANSIT CASE SOLUTIONS ([WEB LINK](#))

SprayCool sealed transit cases are smaller, lighter and more energy efficient than those using traditional air cooling. This translates to a mobile computing cabinet for mobile applications that is convenient to install, easier to transport and requires less logistical infrastructure to operate.

MODULAR SOLUTIONS

SprayCool modular solutions deliver localized cooling of hot spots with low development costs by using standard components specifically designed and tested for harsh military environments. These are well suited for Radar/Sonar processing and Power Electronics applications.

APPLICATIONS ([WEB LINK](#))

SprayCool provides cooling solutions for a variety of Defense and Intelligence community customers, through today's leading system integrators. From ground mobile to unmanned aerial vehicles in unpressurized environments, to government and commercial datacenters, SprayCool solutions have revolutionized how electronics are deployed in harsh environments. Our uniquely designed enclosures, transit cases, modular data racks and cooling modules have met the military's most stringent requirements, spanning all branches of the armed forces, and are geared for airborne, shipboard, ground mobile, or datacenter applications.

DEVELOPMENT AND CUSTOM PRODUCT SERVICES

SprayCool® offers a number of consultative and development services for the implementation of SprayCool-enabled solutions in mission critical mobile or data center environments. These include system design and development of custom solutions, testing and deployment of new systems, life-cycle management, system integration, product service and maintenance. All services are delivered in close collaboration with an established network of integration partners.

CUSTOMERS & INTEGRATION PARTNERS

- U.S. Army
- U.S. Navy (NAVSEA, NAVAIR)
- U.S. Marine Corps
- U.S. Air Force
- U.S. Air Force Research Laboratories
- BAE Systems
- The BOEING Company
- Criterion Systems
- Defense Microelectronics Activity (DMEA)
- Flint Hills Solutions
- GE Aviation
- General Dynamics
- Germane Systems
- Lockheed Martin
- Northrop Grumman
- Pacific Northwest National Labs (PNNL)
- Raytheon
- Sierra Nevada Corporation
- SRC Computers

KEY MILITARY PROGRAMS ([WEB LINK](#))

- EFV - U.S. Marine Corps
- ASIP – U.S. Air Force
- MEADS - U.S. Army/NATO
- HALS – U.S. Army
- CPP-Light – U.S. Army
- BCBL-H – U.S. Army
- RIBS – U.S. Army
- MIBS – U.S. Army
- TRACER – U.S. Army

HEADQUARTERS

- Liberty Lake, WA.

WEB SITE: WWW.SPRAYCOOL.COM

OWNERSHIP: Privately held

FOUNDED: 1988

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