



COMPANY & PRODUCT OVERVIEW

Founded in 1988, SprayCool® is a recognized leader in liquid-cooled environmentally sealed enclosure products for defense, aerospace and industrial applications. 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 most demanding requirements for military and industrial 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

- Provides environmental isolation without dedicated external ECS/Air Conditioning System
- Provides unparalleled flexibility in electronics selection and deployment
- Shortens sourcing and development cycles
- Extends operating temperature range and eliminates thermal barrier
- Enables high performance density
- Increases power efficiency
- Alleviates design constraints related to size, weight and power
- Improves reliability through environmental isolation, case design and lower junction temperature
- Reduces design cycle time associated with electronic components obsolescence

SPRAYCOOL APPLICATIONS ([WEB LINK](#))

SprayCool provides cooling solutions for a variety of Defense and Intelligence community customers, as well as industrial customers, through today's leading system integrators. From ground mobile to unmanned aerial vehicles in unpressurized environments, to industrial and commercial datacenters and real-time field computing environments, SprayCool solutions have revolutionized how electronics are deployed in harsh environments. Our uniquely designed enclosures, rack solutions and cooling modules and kits have met the some of the industry's most stringent requirements.

PRODUCTS

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, while providing complete environmental isolation. 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 has been adopted by a variety of airborne platform applications, including the U.S. Air Force's U-2 LadyHawk, the RQ-4 Global Hawk, MQ-1 Predator and soon to be MQ-9 Reaper. Uniquely suited for unpressurized environments, the MPE offers the only solution for traditionally air cooled cards to operate at altitudes of up to 70,000+ feet, with no dedicated environmental control system installed. The MPE is also suited for a variety of industrial applications where real time processing and harsh environments co-exist, including telecom infrastructure environments and oil & gas exploration.

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 kits enable next generation transit cases, making them smaller, lighter and more energy efficient than those using traditional air cooling. This translates to mobile computing cabinets for mobile applications that are 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.

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 (AFRL)
- BAE Systems
- The BOEING Company
- Defense Microelectronics Activity (DMEA)
- Flint Hills Solutions(FHS)
- GE Aviation
- GE Fanuc
- General Dynamics
- Germane Systems
- Lockheed Martin
- Northrop Grumman
- Pacific Northwest National Laboratories (PNNL)
- Raytheon
- Sierra Nevada Corporation (SNC)
- SKY Computers
- SRC Computers

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

- ASIP – U.S. Air Force
- ASIP-1C – U.S. Air Force
- CPP-Light – U.S. Army
- EA-6B – U.S. Navy
- EFV - U.S. Marine Corps
- HALS – U.S. Army
- MEADS - U.S. Army/NATO
- TRACER – U.S. Army

HEADQUARTERS: Liberty Lake, WA

WEB SITE: WWW.SPRAYCOOL.COM

Media Contact:

Marie Hartis, Director of Marketing 509.241.4518 mhartis@spraycool.com