



PRESS RELEASE

Spraycool Enclosures Onboard Global Hawk Block 30 for Airborne Signals Intelligence Payload Flight Test



SprayCool technology cited as key component of next-generation signals intelligence sensor for Global Hawk unmanned aircraft system

Liberty Lake, WA– July 7, 2009– SprayCool®, a recognized leader in the development of advanced thermal management solutions for the DoD and industrial customers, announced today that its liquid cooled enclosures were included in the first test flight of Northrop Grumman Corporation's (NYSE: NOC) Airborne Signals Intelligence Payload (ASIP) aboard a Block 30 Global Hawk unmanned aircraft system (UAS). One of the most significant new capabilities on Global Hawk is the addition of a Northrop Grumman-developed signals intelligence (SIGINT) sensor. SprayCool enables ASIP's critical electronics to be installed in the unpressurized compartments of the Global Hawk UAS.

The recently completed flight test of an ASIP sensor on the U-2 aircraft verified the successful application of SprayCool technology in a high altitude environment. Global Hawk testing further supports the use of this technology on a high altitude, long endurance platform. A series of flight tests are planned over the next few months to validate all aspects of ASIP performance on Global Hawk. An initial production contract on Global Hawk ASIP chassis was awarded to SprayCool in the summer of 2008. SprayCool is also on contract to provide SprayCool chassis for a scaled derivative of the baseline ASIP sensor which will fly on another platform.

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"SprayCool technology enables ASIP to use commercial, off-the-shelf electronics alongside very high-end electronic systems in a single sealed enclosure," said Matt Gerber, president and chief executive officer of SprayCool. "Unpressurized operation at high altitude requires a thermal management solution that supports both heating and cooling of electronics, as well as provides complete environmental isolation. SprayCool's chassis do all that, and more."

SprayCool Technology

SprayCool's patented [2-phase liquid cooling technology \(see video\)](#) 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 technology provides an efficiently controlled and isolated environment for a broad mix of electronics in a package that is significantly smaller, lighter, and more power and cost efficient, and faster to deploy by the integrator.

About SprayCool

SprayCool (also known as Isothermal Systems Research) is a global leader in the development of rugged enclosures that provide both thermal management and environmental isolation for current and next-generation electronics in military, aerospace, and industrial applications. SprayCool works with today's leading integrators to meet the military's most demanding thermal requirements, and is gaining wide acceptance on a number of key reconnaissance, command & control, and EW programs. Platforms using SprayCool include manned and unmanned fixed-wing aircraft (*U-2, Global Hawk, Predator, Warrior*) and rotorcraft (*Black Hawk*), as well as amphibious (*EFV*) and missile defense systems (*MEADS*) among others. Founded in 1988, SprayCool is based in Liberty Lake, WA and markets its products through a global network of partners and integrators. For more information, please visit www.spraycool.com

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