

AIRBORNE LASER MINE DETECTION SYSTEM ENVIRONMENTAL CONTROL SYSTEM (ECS) Model 3459



Product description

Parker Meggitt Defense Systems is currently under a U.S. Navy contract with Northrop Grumman as part of the Airborne Laser Mine Detection System (ALMDS) program. Naval Surface Warfare Center, Coastal Systems Station (NSWC-CSS) is the Technical Design Agent (TDA) and Contracting Office for the US Navy.

Parker Meggitt Defense Systems is under contract to design and develop an Environmental Control System (ECS) chiller that provides a constant supply of regulated temperature fluid to helicopter-borne pod electronics.

The ECS provides up to 4.0 kW of cooling capacity in a package that is 19.0 inches in diameter, 19.0 inches in length and weighs less than 135 lbs. The ECS based on Parker Meggitt Defense Systems existing Model 3222 (April Showers), is designed to maintain and control precise fluid temperatures over the entire spectrum of the helicopter harsh operating environment and is specifically designed to withstand the severe salt-water operational environment.

The ECS consists of a high efficiency vapor cycle refrigeration cooling circuit and coolant re-circulation loop supplying temperature controlled coolant to the pod electronics cold plates. A heater is provided to warm-up coolant during low ambient operation. An analog controller provides for ECS control and health/status monitoring. An access panel provided in the ECS cover provides for easy maintenance and servicing.

Key features and benefits

- Provides up to 4.0 kW of cooling
- Maintains and controls precise fluid temperatures
- Withstands severe salt water environment

Applications

- Provides a constant supply of regulated temperature fluid to helicopter-borne pod electronics.



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Specifications	
Fluid	PAO
Length	19 inches
Diameter	19 inches
Weight	Less than 135 lbs



Defense
Systems

Note: Due to continuous process improvement, specifications are subject to change without notice. TCO Review # 116