

DATA SHEET

Magic Lantern Chiller

Model RS-378



01 Description

The Meggitt Defense Systems Model RS-378 is a densely packaged, high efficient Ethylene Glycol and Water chiller, currently fielded on the Kaman SH-2G Super Seasprite helicopter platform. The chiller provides thermal conditioning for the Magic Lantern laser mine detection system. The chiller operating with 400hz, 3 phase AC power is lightweight and utilizes high efficiency Meggitt Defense Systems refrigerant compressor with established reliability in similar airborne/military platforms.

The chiller maintains stable temperature control of supply fluid within the range of 75 and 90 degrees Fahrenheit.

High efficient positive displacement pump provides 2.0 GPM of minimum fluid flow over the entire operating environment. Quick disconnects are provided for interface connections to the payload and the chiller mounting configuration provides for efficient installation and removal.

Low profile packaging minimizes helicopter floor space usage. The chiller can easily adapted to other military ground and airborne applications requiring electronic/laser thermal conditioning and temperature control.

02 Key features and benefits

- Provides electronics cooling for Magic Lantern System
- Currently fielded on Kaman SH-2 helicopter
- Capacity - 1.300 kW at 140° F Ambient (200 Watts min at 0° F)
- Fluid - 50/50 EGW

03 Applications

- Kaman SH-2G Super Seasprite helicopter
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04 Contact

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05 Specifications

