

Compact Cooler Vapor Cycle System In A Box



Features

- Most compact vapor compression system
- Microprocessor controlled temperature management
- DC gear pump, and variable speed fan
- Variable-speed rotary compressor, brushless
- Unit draws cool air from top and side and rejects hot exhaust through rear
- Self contained system rackable or easily integrated into current and future manned and unmanned systems

Description

The Compact Cooler was designed and developed by Meggitt Defense Systems as a response to the demands of small, rugged vapor-compression units capable of providing over 1kW of precision liquid cooling.

The unit combines customized parts as well as quality COTS items to make the unit more cost effective. The chassis is compliant with standard ATR dimensions, therefore allowing it to fit alongside existing components that require cooling. A customizable PID controller enables the user to define various operating temperatures, set points, and alarms. And unlike other liquid coolers, the compact cooler uses refrigerated fluids and therefore can continuously cool critical electronic and communication hardware no matter how hot or cold it gets outside. It can cool and pump propylene glycol/water, water/ethylene glycol, and PAO at rates from 1-4 liters per minute.

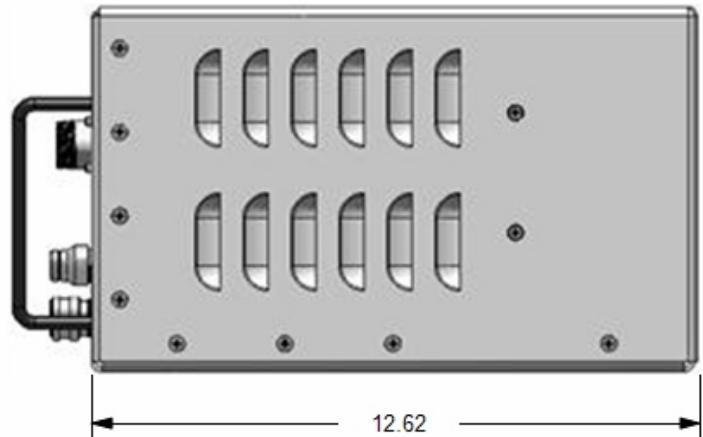
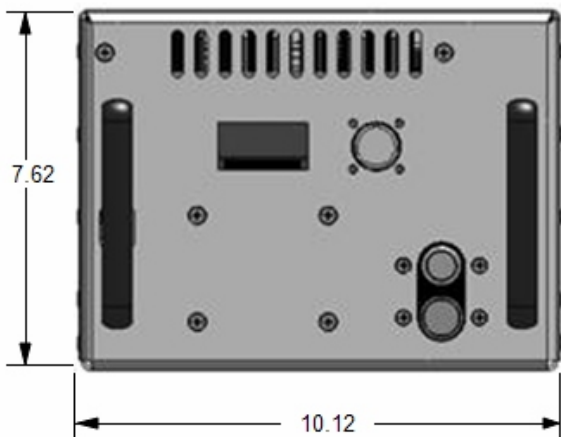
Compact Cooler

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Specifications

- COOLING CAPACITY: 1 kW @ 120°F Ambient FLUID: 50/50 Propylene glycol/water mixture
- INPUT VOLTAGE: 28 VDC
- CURRENT REQUIRED: 35 A
- LIQUID CIRCUIT FLOW RATE: 0.5 gpm
- WEIGHT 33.0 lbs.

Overall dimensions



Meggitt Defense Systems Inc
9801 Muirlands Blvd
Irvine
California
92618
United States

Tel: 949 465 7700
Fax: 949 465 9560

www.meggittdefense.com

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smart engineering for
extreme environments