

MRC Series Thermoelectric Cooler Assembly

Note: This product is not recommended for new designs.

Please use the recommended replacement:

MFG Part Number: 385901-002

Description: NRC400-T0-00-PC2

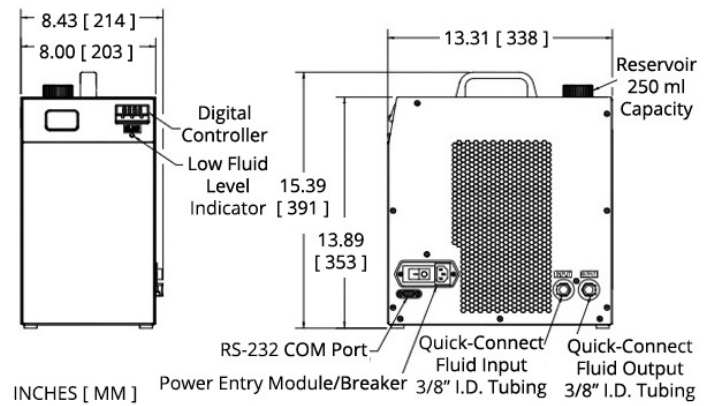
The MRC300-DH2-HT-DV is a bench top re-circulating chiller that offers dependable, compact performance by controlling the temperature of a coolant in a liquid circuit. The coolant is re-circulated using a pump with high MTBF. Heat from coolant is absorbed by a heat exchanger and dissipated thru high density heat sinks equipped with brand name fans. The thermoelectric modules are custom designed to achieve long life operation. The unit is regulated with an easy to use digital temperature controller with push button interface. The controller can control temperature of liquid circuit at outlet from -12°C to 40°C. The unit is housed inside an a sheet metal casing, operates on universal input 115/230 VAC and is UL/IEC rated. Custom configurations are available, however, MOQ applies.

Features

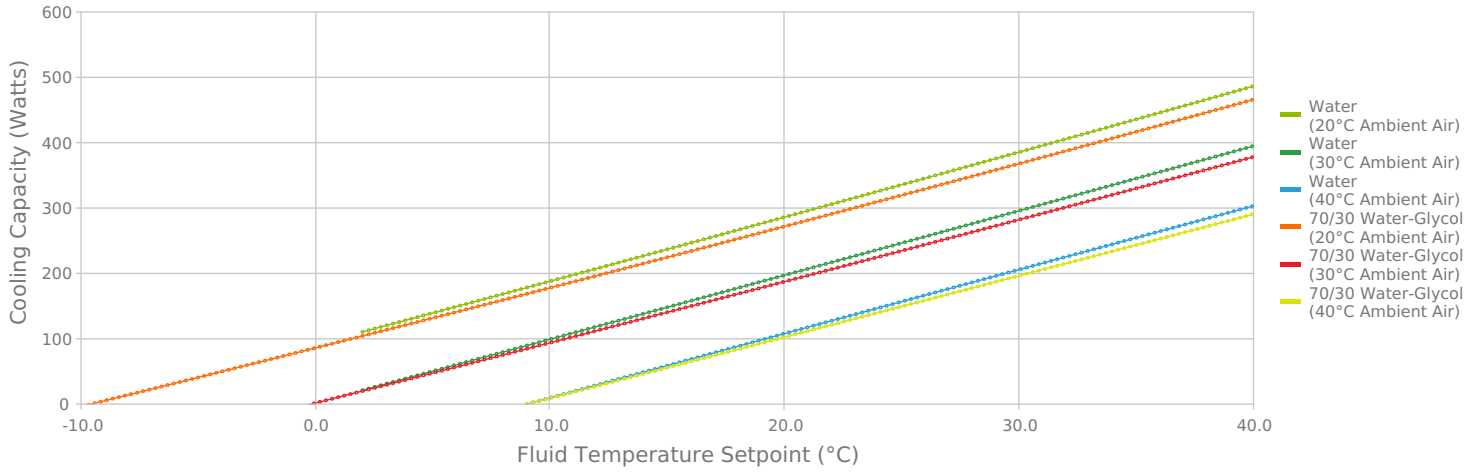
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

Applications

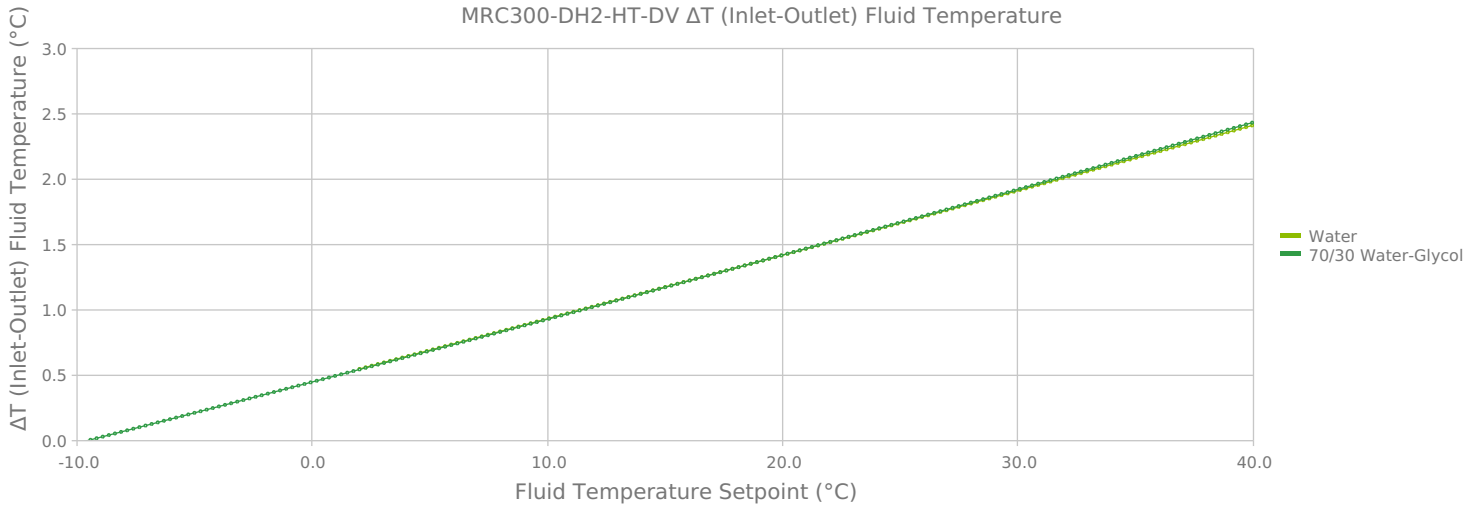
- Analytical Instrumentation
- Industrial Laser Cooling



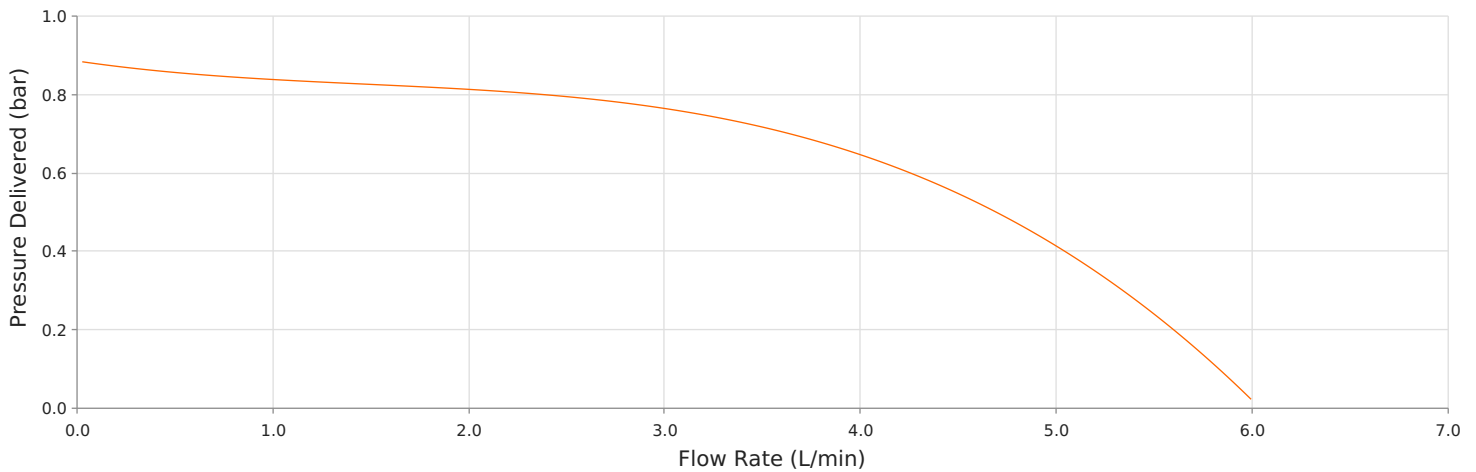
MRC300-DH2-HT-DV Cooling Capacity (Qc)



MRC300-DH2-HT-DV ΔT (Inlet-Outlet) Fluid Temperature



MRC300-DH2-HT-DV - Pump Capacity



SPECIFICATIONS

Resistance Heater	250 Watts
Operating Environment Temperature Range	4°C to 45°C
Control Temperature Range (Water)	2°C to 40°C
Control Temperature Range (70/30 Water/Glycol)	-12°C to 40°C
Controller Accuracy	±0.16°C
Supply Voltage	115 VAC to 230 VAC
Current 115 VAC (230 VAC)	8.5 Amps (4.3 Amps)
Power Supply	507.0 Watts
Frequency	50/60 Hz
Performance Tolerance	10%
Fluid Capacity	450 mL
Maximum Flow Rate	3.3 L/min
Weight	13.60 kg

NOTES

¹Use distilled water as coolant for control temperatures above 5°C

²To prevent freezing, use coolant with 70/30 distilled water/ethylene glycol

³Unit comes with a 115 VAC North American cord and a 230 VAC European cord

⁴UL Rating: UL61010 - 1/IEC61010-1

Any information furnished by Laird and its agents, whether in specifications, data sheets, product catalogues or otherwise, is believed to be (but is not warranted as being) accurate and reliable, is provided for information only and does not form part of any contract with Laird. All specifications are subject to change without notice. Laird assumes no responsibility and disclaims all liability for losses or damages resulting from use of or reliance on this information. All Laird products are sold subject to the Laird Terms and Conditions of sale (including Laird's limited warranty) in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2019-2023 Laird Thermal Systems, Inc. All rights reserved. Laird™, the Laird Ring Logo, and Laird Thermal Systems™ are trademarks or registered trademarks of Laird Limited or its subsidiaries.

Revision: 01 Date: 06-08-2023

Print Date: 06-08-2023