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 -12ºC to 40ºC. 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**
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling Particle Accelerators: Linear Accelerators and Cyclotrons
- Spindle Screw Pump Technology for Medical Cooling
- Semiconductor Fabrication Equipment Cooling
- X-ray Cooling in Industrial Scanners
Laird™

THERMAL
SYSTEMS

MRC Series MRC300-DH2-HT-DV
MFG Part Number: 385760-001

Coefficient of Performance (COP = Qc/Pin)
Tambient = 35°C | Tcontrol = 20°C

Operating Current (Amps)

Operating Voltage (Volts)

Total Heat Dissipated at Hot Side (Qh=Qc+Pin)
Tambient = 35°C | Tcontrol = 20°C

Heat Pumped at Cold Side (Qc)
Voperating = 24 Volts | Ioperating = 15 Amps

Coefficient of Performance (COP = Qc/Pin)
Voperating = 24 Volts | Ioperating = 15 Amps
SPECIFICATIONS

Operating Environment Temperature Range
4 °C to 45°C

Control Temperature Range (70/30 Water/Glycol)
-12 °C to 40°C

Supply Voltage
115 VAC to 230 VAC

Current 115 VAC ( 230 VAC )
8.5 Amps ( 4.3 Amps )

Power Supply
507.0 Watts

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

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