

Rack Mount Chiller RMC-1100

Compact, Lightweight, Industrial Reliability

Part# FP00101

2U has never been so COOL!



Compact size, minimal weight and industrial-class reliability are essential requirements for many cooling applications. Aspen Systems is proud to introduce the RMC-1100, a new turnkey 1,100W liquid chiller system in a rack mount 2U enclosure. The RMC-1100 is a result of Aspen Systems' cumulative years of expertise in supplying OEM refrigeration solutions to the military, medical, laser and electronics industrial markets and it is ideal for a vast number of applications where low height, lightweight and high efficiency are key.

Aspen's Rack Mount Chiller (RMC) uses a DC, variable speed, Compressor **and** coolant pump giving the user unrivaled flexibility. The compressor can be varied from 1,200-6,500 rpm providing cooling power from 20-100% to match the load. The compressor speed is automatically adjusted by the PID controller based on the user input for the set point temperature.

Pump speed is user variable via the controller from 0-3.5 liters/minute with a maximum pressure of 100 psi. As standard, the system includes a universal power supply for 110-220 VAC, 50/60 Hz. Optionally, the system can be configured for its native 24 VDC - ideal for portable or mobile applications.

System Highlights

- » *RMC-1100: 1,100 Watts of cooling*
- » ***3-5 X** more efficient than TE-based chillers*
- » *Ultra compact - 2U (3.5" height)*
- » *Extremely lightweight*
- » *Compressor: >90,000 hour MTBF*
- » *Variable speed compressor*
- » *User adjustable coolant flow rate*

Liquid Refrigeration System Rack Mount Chiller, RMC-1100

high performance, turn-key liquid cooling

Specifications	RMC-1100
Capacity Watts/BTUs ¹	1,100/3,750
Stability (°C)	±0.1
Coolant Flow Rate (l/min)	0-3.5
Coolant Pressure (psi)	up to 100
Communication	RS-485
Noise (dBA)	68
Input	100-240VAC/50-60Hz
Dimensions (2U Height)	22" x 19" x 3.5"
Weight (kg/lbs)	12/26

¹Performance dependent on ambient & delivered liquid temperature

Applications

- » Laser Cooling
- » Medical Devices
- » Medical Aesthetics
- » Electronics & Enclosures
- » Electric Vehicle Systems & Components
- » Laboratory Equipment
- » Bio-sample Analyzers
- » Patient Cooling
- » Sensors & Detectors
- » Data Centers, Communication Systems

Any application that requires small size, light weight or high efficiency.

Custom Configurations

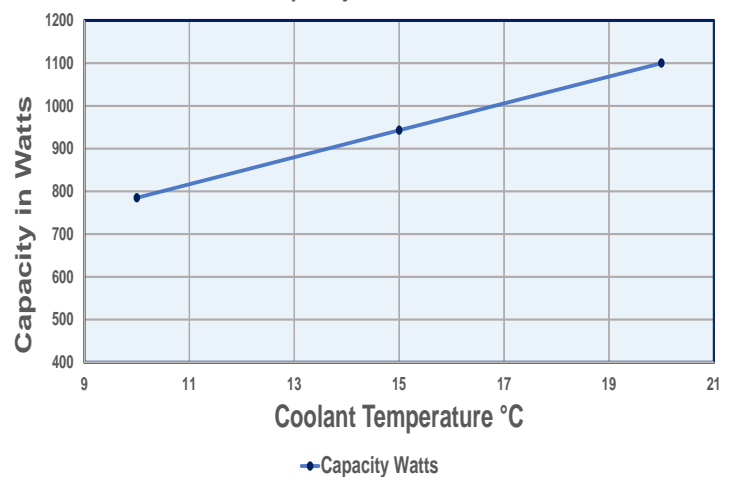
To satisfy customers' application requirements, Aspen Systems can custom-design air conditioning or cold plate cooling systems comparable to RMC-1100. Please contact one of our application engineers about your cooling requirements.

Contact us today for a free evaluation of your application:
508-281-5322 or e-mail info@aspensystems.com

www.aspensystems.com

24 Saint Martin Dr. • Marlborough, MA 01752 • 508 281 5322 • info@aspensystems.com

RMC Capacity @ 20°C Ambient



Aspen Background

Aspen Systems is the world leader in miniature refrigeration systems. We have created refrigeration systems to meet specifications for dozens of customers with thousands of installations in personal cooling, manufacturing, mobile electronics, airborne electronics, lasers, military, and medical.

