

Affinity® Thermal Control Products from Lydall

Lydall Affinity® thermal control solutions are designed and built to your manufacturing specifications and are focused on reducing energy consumption. High-performance refrigerated and non-refrigerated chillers and heating systems in compact, modular and user-friendly designs, deliver process temperature ranges of -80°C to +200°C.

Innovative, modular design.

Reliable performance.

Flexible applications.

# R-Series *Rack-Mountable* Air-Cooled Chiller

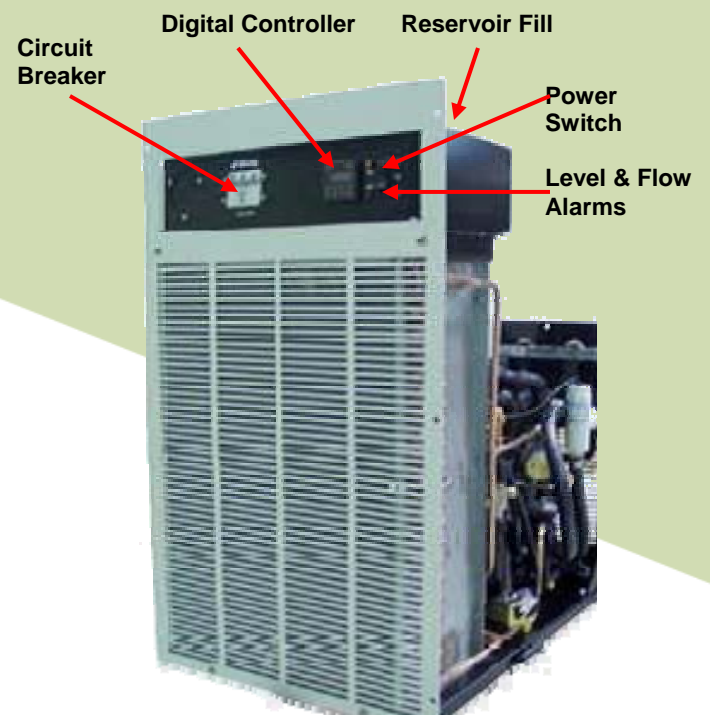
## System Features:

- No facility water hook-up required
- Easy to install (Plug & Play)

## Available Options:

- Air-cooled or water-cooled heat rejection
- Alternative coolant temperature ranges
- Many electrical configurations
- Various pumps available
- Open reservoir system
- RS-485 & RS-232 communications
- WinChill Control Software
- Various interlocks for flow, level, temp, etc. Choice of DB-25 or 4-pin configurations
- Internal or external coolant loop deionizing cartridges & sensors
- Coolant loop filter packages
- Stainless, engineered plastics, nickel only on wetted surfaces
- Adjustable low flow switch
- Quick connect external hose packages

Not all options available on all models.



Now you have a choice.

[www.lydallaffinity.com](http://www.lydallaffinity.com)

## System Performance Characteristics

Model Nomenclature	RAA-012T-CD19CBD4
MET Listed	Yes
CE Marked	Yes
Dimensions	27" L X 19" W X 31.5" H
Weight	240 lbs.
Ambient Temperature Range	41° F - 95° F (5° C - 35° C)
Process Temperature Range	39° F - 86° F (4° C - 30° C)
Nominal Heat Removal	4 kW @ 60 Hz 3.3 kW @ 50 Hz
Pump Performance	4 gpm @ 45 psi
Electrical Configuration:	
Voltage @ 60 Hz	208 – 230 Volts +/- 10%
Voltage @ 50 Hz	200 Volts +/- 10%
Phase	1
Total Amps	11.3
Maximum Fuse Disconnect (required of customer)	60
Power Cord Supplied	Nema, 15-20
Refrigerant	R-407C

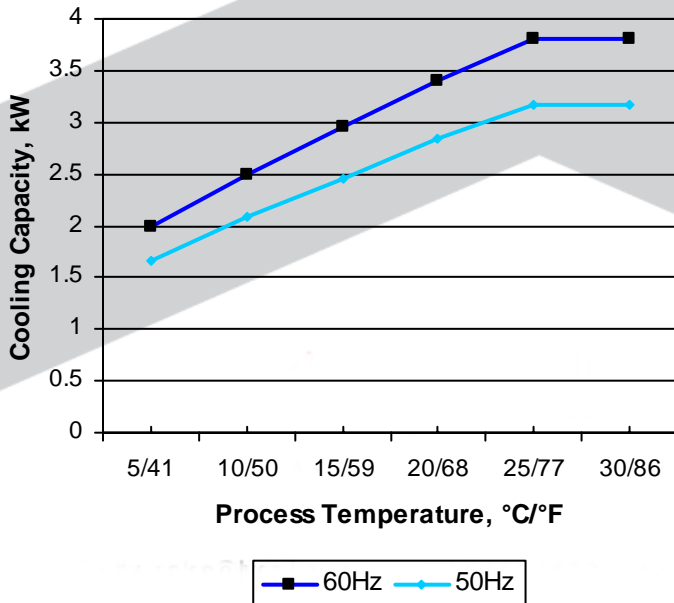
**Notes:**

Data @ 30°C/86°F unrestricted ambient air for air-cooled chillers.

Capacities decrease with increasing ambient temperature.

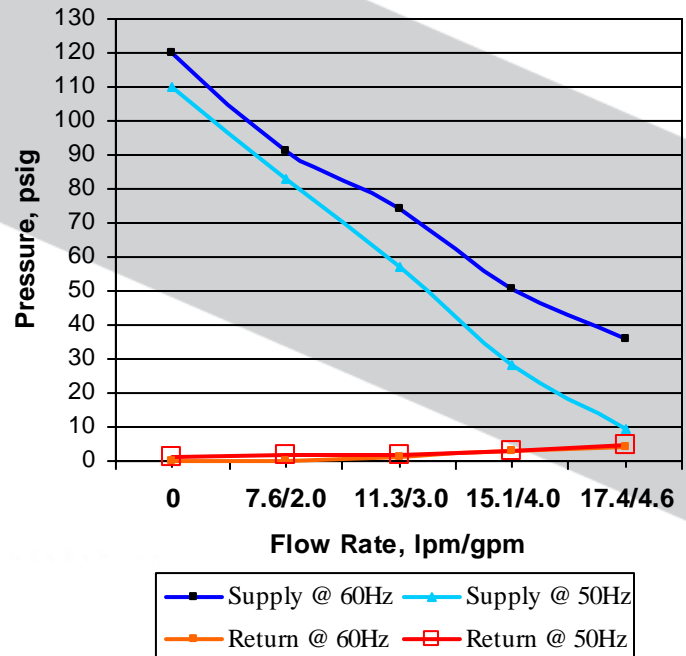
### Cooling Capacity

KiloWatts vs. Process Temperature



### Pump Performance

Coolant pressure versus flow rate



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