

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.

Triple Loop Heat Exchanger

Water-to-Water

System Features:

- Compact Size
- Modular design
- MET & CE listed
- Auto-refill, Loops 1, 2, & 3
- Copper, hard-plumbed facility water loop
- DI package, 1 Meg-ohm
- Seismic brackets, leveling feet, 4 non-locking casters
- Removable bonnet for fast & easy maintenance
- Sealed reservoir systems
- Components designed for continuous operation
- Submersible pumps
- Rust-free wetted surface
- Digital temperature displays
- Celsius or Fahrenheit scales
- Platinum RTD probe
- 24 VDC control voltage
- Programmable high & low temperature alarm choices
- Plate heat exchangers
- Option of PID microprocessors or Graphic display touch screen control
- Temperature ramp to set point
- Control lock-out protection
- Coolant reservoir drains
- Coolant strainers
- Coolant drip tray with drain port
- Low coolant flow alarms
- Coolant flow control valve
- EMO (Emergency Stop Button)
- Easy to access filters with isolation valves built to Semi S2 standards



Now you have a choice.

www.lydallaffinity.com

System Performance Characteristics

Model Nomenclature	CWA-23EK-MP41CBD0
CE Marked	Yes
Weight	1,050 lbs
Dimensions	60.3"L x 31.3"W x 34"H
Ambient Temperature Range	41° F - 104° F (5° C - 40° C)
Process Temperature Range	39° F - 86° F (4° C - 30° C)
Nominal Heat Removal	1 kW
Pump Performance @ 50 Hz	4 gpm @ 30 psi
Electrical Configuration:	
Voltage @ 60 Hz	208 - 230V +/- 10%
Voltage @ 50 Hz	200 - 220V +/- 10%
Phase	3
Total Amps	
Maximum Fuse Disconnect	
Power Cord Supplied	Nema, 5-15

Notes:

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

Capacities decrease with increasing ambient temperature.

Three separate independent cooling loops

- Loop 1: Amplifier Loop**
20 kW at 21C,
24 gpm at 45 psi minimum,
100 psi maximum, copper hard plumb
- Loop 2: Resonator Loop**
36 kW at 21C,
36 gpm at 50 psi minimum,
100 psi maximum, copper hard plumb
- Loop 3: DI Loop**
15 kW at 23C,
18 gpm at 40 psi minimum,
100 psi maximum, DI, SS hard plumb



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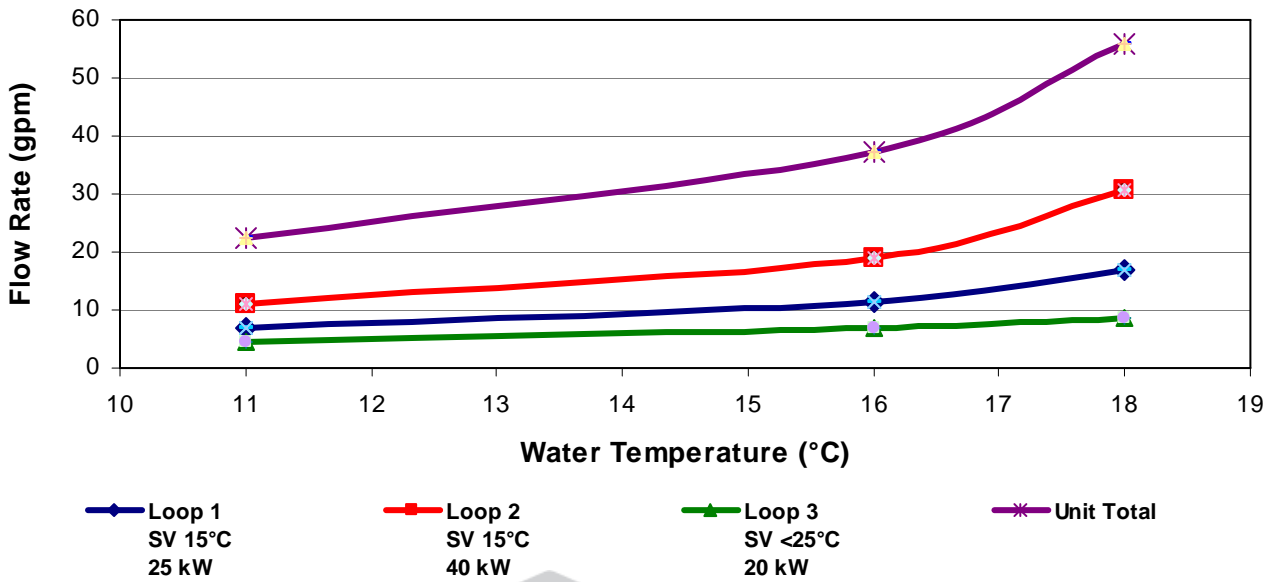
Lydall Industrial Thermal Solutions, Inc.

E-mail: affinity_sales@lydall.com

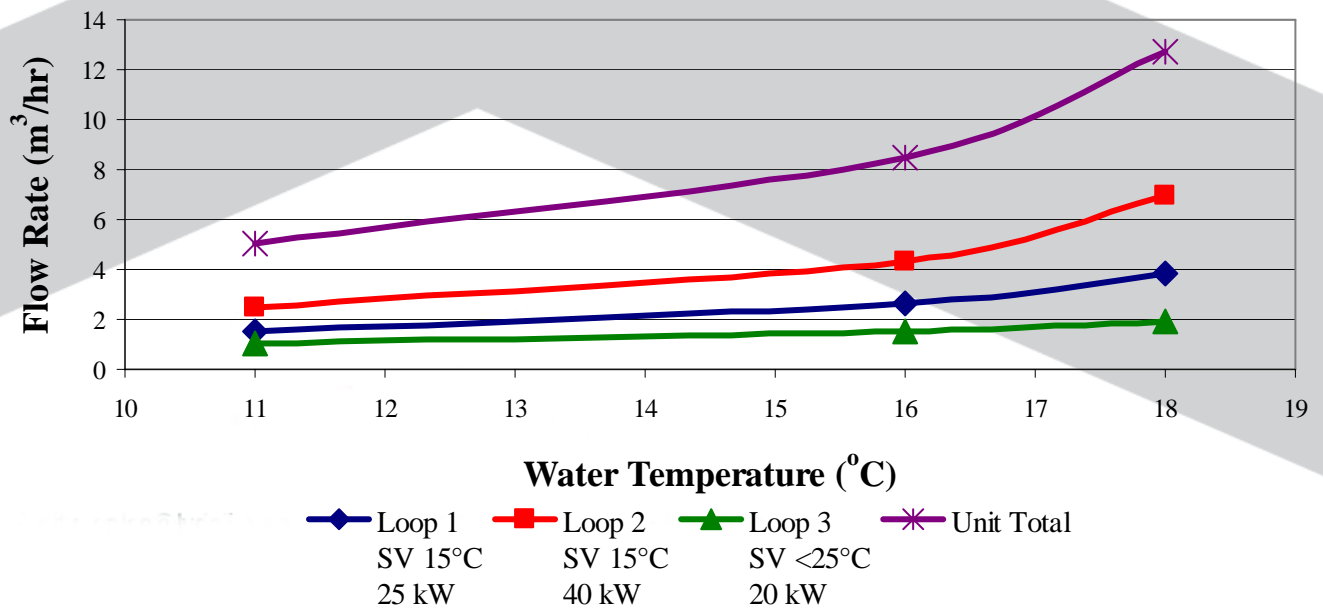
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Facility Water Requirements (Flow Rate vs. Water Temperature)



Facility Water Requirements Cubic Meters per Hour



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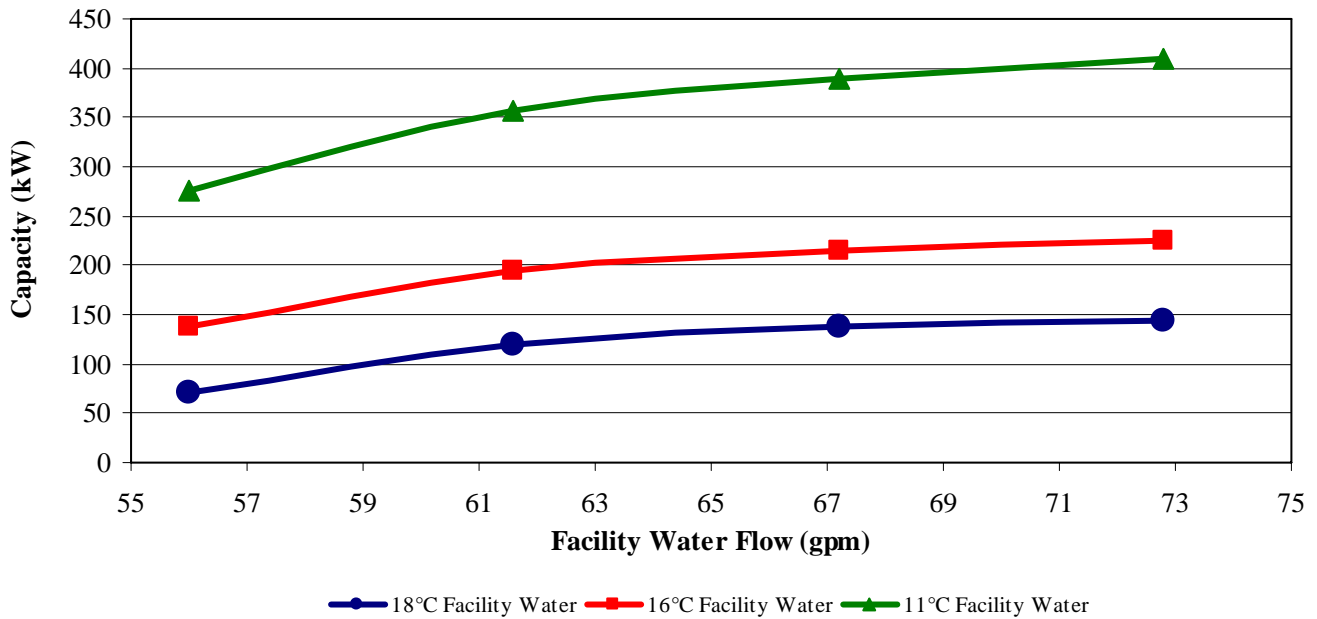
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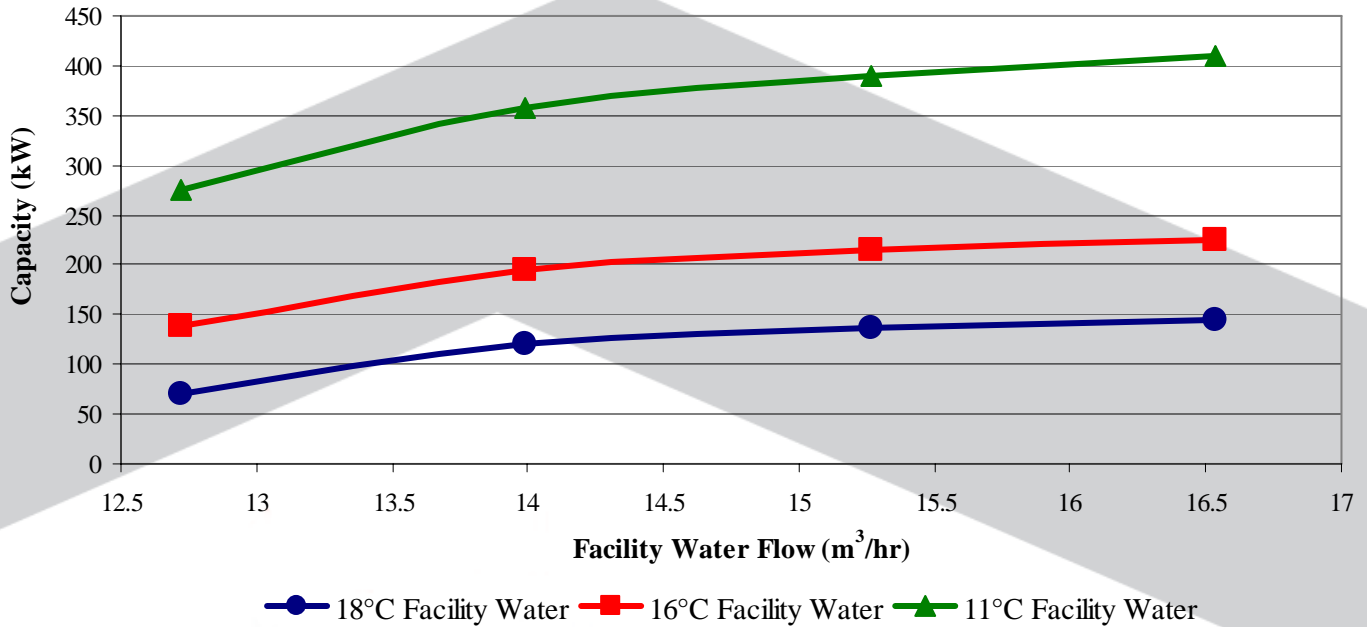
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Unit Capacity Gallons per Minute



Unit Capacity Cubic Meters per Hour



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