

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.

# P-Series — Water Cooled Chiller

## 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
- EtherNet
- DeviceNet
- Profibus
- Various interlocks for flow, level, temp, etc. DB-25 or configuration
- Internal or external coolant loop deionizing cartridges 7 sensors
- Coolant loop filter packages
- Stainless, engineered plastics, nickel only on wetted surfaces
- Adjustable low flow switch
- Quick connect external hose packages

## Features:

- 2kW porcupine heater
- Internal HFE filter/dryer option
- Front-facing protected style EMO
- 4-Pin EMO interlock, LON Works
- Coolant containment tray level sensor
- Low level shut down switch
- Seismic brackets
- Upgraded start button
- Semi/CE compliant upgrades
- Magnetically-driven turbine pump

**Not all options available on all models.**



Now you have a choice.

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

## System Performance Characteristics

Model Nomenclature	PWG-040K-BE37CBD2
CE Marked	Yes
MET Listed	Yes
Weight	450 lbs.
Dimensions	29" L X 19.125" W X 45.72" H
Ambient Temperature Range	5° C - 40° C
Process Temperature Range	-40° C - +90° C
Nominal Heat Removal	700 Watts @ -40° C
Pump Performance @ 60 Hz	3 gpm @ 65 psi
Electrical Configuration:	
Voltage @ 60 Hz	208 – 230 Volts +/- 10%
Voltage @ 50 Hz	200 – 220 Volts +/- 10%
Phase	3
Total Amps	28.3
Maximum Fuse Disconnect (required of customer)	45
Refrigerant	R-507

**Notes:**

Data for water as a coolant.

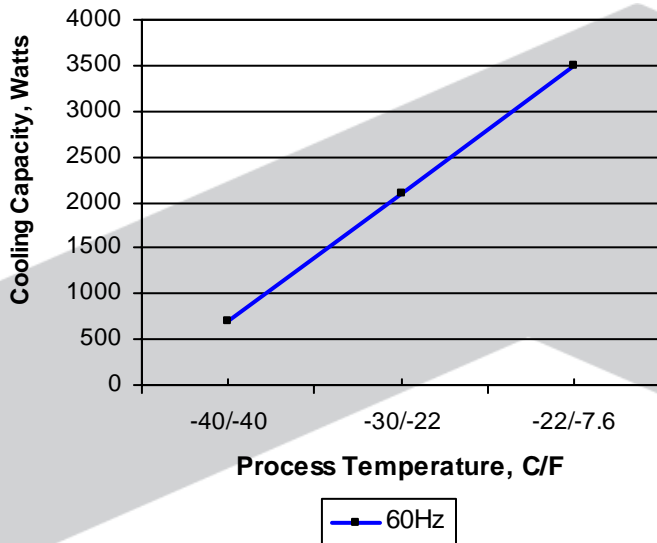
Data at 25°C plant water-water-cooled chillers. Designed for indoor use between 5°C - 40°C ambient air.

Capacities decrease with increasing plant water temperature.

Data contained herein is subject to change

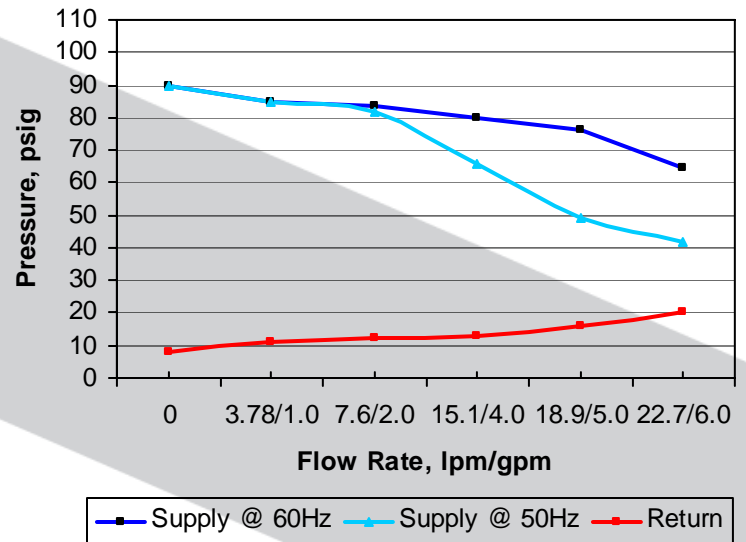
### Cooling Capacity

KiloWatts vs. Process Temperature



### Pump Performance

Coolant pressure versus flow rate



Now you have a choice.

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