

THERMORACK 800

Precision Thermal Control for Optimal Laser Performance and Stability



Thermorack 800 W improves

- Laser beam stability
- Beam pointing precision
- Beam shape control
- Pulse width control
- Wavelength control

Other Benefits

- Rapid temperature control response
- Refrigerant free and energy efficient
- Quiet and vibration free
- 6U standard 19" rack mount



Solid State
COOLING SYSTEMS
Temperature Control...Precisely.

The Right Temperature Without Fail

Solid State Cooling Systems

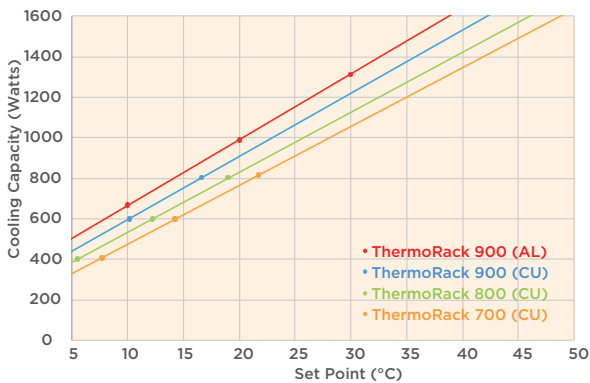


800 Watt thermoelectric reliability for laser and industrial applications

ThermoRack 800 delivers precision thermal control to $\pm 0.05^\circ\text{C}$, even near ambient. With only two moving parts and standard variable speed fan, it is quiet and vibration free. Its universal input power supply and centrifugal pump system are designed to deliver 30 psig at 1 gpm for laser diode and other applications.

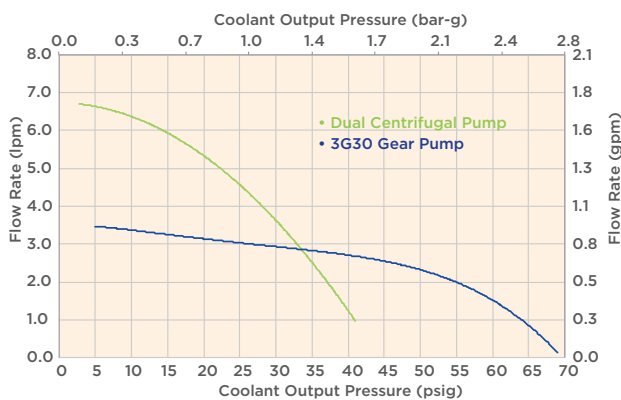
ThermoRack is designed around a core of thermoelectric modules with lifetimes exceeding 200,000 hours for high reliability. And, for energy-efficiency, our variable power control only draws power as you need it.

THERMORACK 800 COOLING CURVES
20 °C AMBIENT, PROCESS FLUID: WATER



Note: Cooling capacity will vary with configuration

THERMORACK 800 PUMP CURVE



SPECIFICATIONS

Operating Range	5 °C to 50 °C standard
Ambient Temperature	10°C to 40°C non-condensing
Stability/Repeatability	± 0.05 °C, even near ambient
Cooling Capacity	730-950 Watts @ 20°C (20°C ambient) depending on configuration
Noise	< 63 dBA (50% load), < 75 dBA (max load)
Coolant/Process Fluid	Koolance (27% propylene glycol/water mix) or 27-50% ethylene glycol/water mix
Process Fluid Fittings	3/8" Female NPT standard Adaptor kits available for John Guest, Swage, CPC or hose barb
Pump	3.5 lpm (0.9 gpm) @ 30 psig
Tank Volume	800 ml with level sensor
Wetted Materials	Al, stainless steel and polymers, or Cu, stainless steel, brass, and polymers
Size (W x D x H)	19" x 20" x 11" 6U (48 x 51 x 27 cm)
Weight	55 lbs (24.5 kg)
Power Input	200-240 VAC 1p, 50/60 Hz, 8A max 100-240 VAC, 50/60 Hz, 16-8A max (700W model only)
Communications	Keypad or optional USB interface
Standards	TUV listed to UL, CAN/CSA and EN 61010-1, CE 61010-1, RoHS compliant
Warranty	2 years

SOLID STATE COOLING SYSTEMS

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