

THERMORACK 401

Precision Thermal Control for Optimal Laser Performance and Stability



400 Watts

- Laser and industrial applications
- 4U standard 19" rack mount
- 5 to 45 °C heat or cool
- Refrigerant free
- Energy efficient
- Quiet and vibration free



The Right Temperature Without Fail

Solid State Cooling Systems



400 Watt thermoelectric reliability optimized for modest heat loads

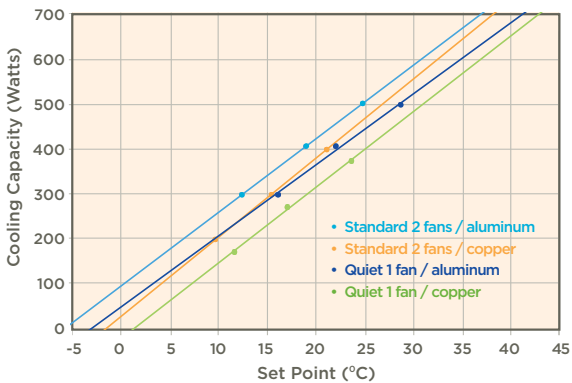
The ThermoRack 401 delivers precision temperature control to $\pm 0.05^{\circ}\text{C}$, even near ambient. With only two moving parts and standard variable speed fan it is whisper quiet and vibration free for advanced optics and laser applications.

Optimized for laser and industrial applications, ThermoRack 401 operates within the most energy-efficient range of a core of thermoelectric modules with lifetimes exceeding 200,000 hours. And our variable voltage power control means even greater efficiency, drawing power only as you need it.

ThermoRack 401 comes with a universal power supply standard so it can be operated worldwide by changing the power cord.

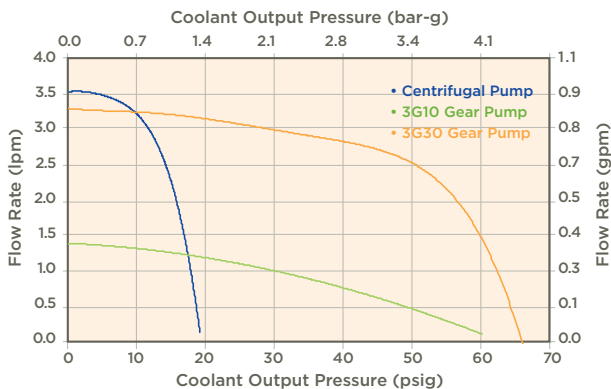
For complete information: sscooling.com/thermorack401

THERMORACK 401 COOLING CURVE
20 °C AMBIENT, PROCESS FLUID WATER



Note: Cooling Capacity will vary with configuration

THERMORACK 401 PUMP CURVE



SPECIFICATIONS

Operating Range	5 °C to 45 °C standard
Ambient Temperature	10 °C to 40 °C non-condensing
Repeatability	$\pm 0.05^{\circ}\text{C}$, even near ambient
Cooling Capacity	315-420W @ 20°C (20°C ambient) depending on configuration
Noise (at 1 meter)	2 Fan: < 55 dBA at 50%, < 68 dBA at max Quiet: < 48 dBA at 50%, < 58 dBA at max
Coolant/Process Fluid	Koolance (27% propylene glycol/water mix) or 27-50% ethylene glycol/water mix
Process Fluid Fittings	1/4" CPC with shut off valves
Pump	2 lpm @ 15 psig centrifugal pump or 3 lpm configurable gear pump
Tank Volume	1 liter with level sensor
Wetted Materials	Aluminum, stainless steel and polymers or Copper, stainless steel, brass, and polymers
Size (L x W x H)	19" x 21" x 7" 4U (48 x 53 x 18 cm)
Weight	39 lbs (18 kg)
Power Input	Universal: 100-240 VAC, 50/60 Hz, 9-4A max
Communications	Keypad or USB interface
Alarms	Temperature, fluid level, component or system failure (display and USB option)
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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