

# 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

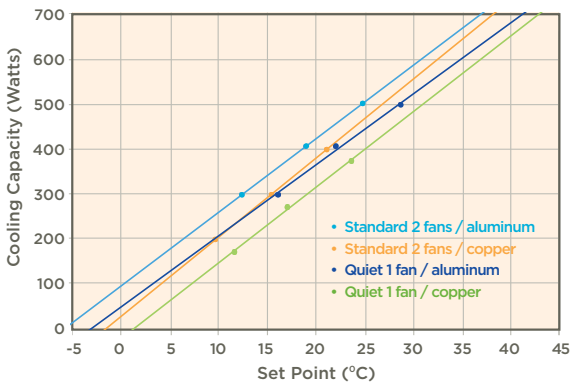
The ThermoRack 401 delivers precision temperature control to  $\pm 0.05^{\circ}\text{C}$ , even near ambient. With only two moving parts and standard variable speed fan it is whisper quiet and vibration free for advanced optics and laser applications.

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.

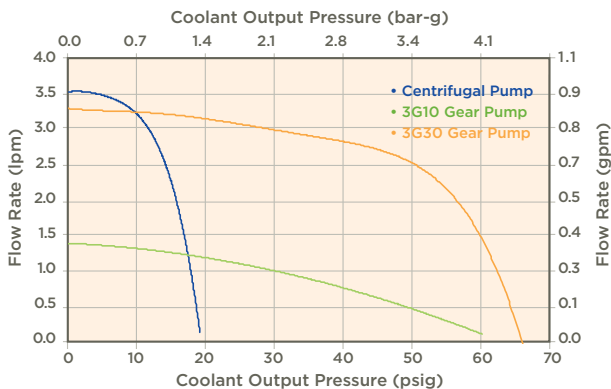
For complete information: [sscooling.com/thermorack401](http://sscooling.com/thermorack401)

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



Note: Cooling Capacity will vary with configuration

**THERMORACK 401 PUMP CURVE**



### SPECIFICATIONS

<b>Operating Range</b>	5 °C to 45 °C standard
<b>Ambient Temperature</b>	10 °C to 40 °C non-condensing
<b>Repeatability</b>	$\pm 0.05^{\circ}\text{C}$ , even near ambient
<b>Cooling Capacity</b>	315-420W @ 20°C (20°C ambient) depending on configuration
<b>Noise ( at 1 meter)</b>	2 Fan: < 55 dBA at 50%, < 68 dBA at max Quiet: < 48 dBA at 50%, < 58 dBA at max
<b>Coolant/Process Fluid</b>	Koolance (27% propylene glycol/water mix) or 27-50% ethylene glycol/water mix
<b>Process Fluid Fittings</b>	1/4" CPC with shut off valves
<b>Pump</b>	2 lpm @ 15 psig centrifugal pump or 3 lpm configurable gear pump
<b>Tank Volume</b>	1 liter with level sensor
<b>Wetted Materials</b>	Aluminum, stainless steel and polymers or Copper, stainless steel, brass, and polymers
<b>Size (L x W x H)</b>	19" x 21" x 7" 4U (48 x 53 x 18 cm)
<b>Weight</b>	39 lbs (18 kg)
<b>Power Input</b>	Universal: 100-240 VAC, 50/60 Hz, 9-4A max
<b>Communications</b>	Keypad or USB interface
<b>Alarms</b>	Temperature, fluid level, component or system failure (display and USB option)
<b>Standards</b>	TUV listed to UL, CAN/CSA and EN 61010-1, CE 61010-1, RoHS compliant
<b>Warranty</b>	2 years

SOLID STATE COOLING SYSTEMS

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