

T-Three

Low Cost, Compact and Reliable Precision Temperature Control



T-Three

- Diode or semiconductor lasers
- Analytical equipment
- Low-light CCD cameras
- Rheometers
- Precise control of chemical and gas canisters
- General laboratory use

The Right Temperature Without Fail

Solid State Cooling Systems

T-Three

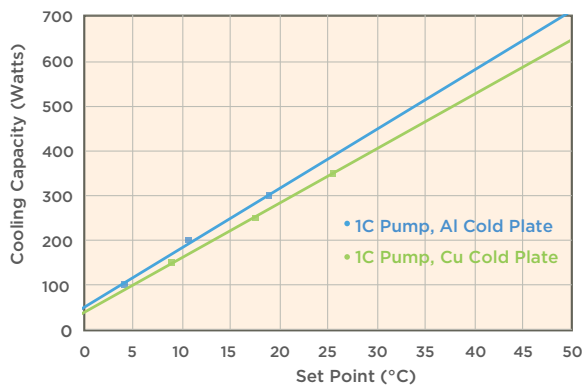


Quiet precision and thermoelectric reliability

The 300 Watt T-Three delivers a cost-efficient way to optimize your equipment's performance through greater thermal stability. T-Three responds instantaneously to changes in load, achieving thermal control from 0 to 50 °C with a repeatability of ± 0.05 °C, even near ambient. The system's smooth-flow centrifugal pump keeps operation vibration free, making it an ideal solution for lasers, optics, analytical equipment or any other application requiring precise temperature control.

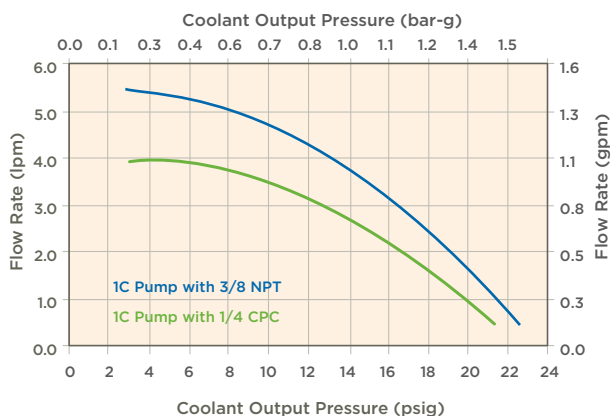
Utilizing thermoelectric modules with lifetimes exceeding 200,000 hours T-Three has no compressors, few moving parts and no Freon, making it highly reliable and environmentally friendly. Universal power input and our variable power control means you efficiently draw power only as you need it.

T-THREE COOLING CURVES
20 °C AMBIENT, PROCESS FLUID: WATER



Note: Cooling Capacity will vary with configuration

T-THREE PUMP CURVES



SPECIFICATIONS

Operating Range	5 °C to 50 °C (Cu) or 0°C to 50°C (Al)
Ambient Temperature	10 °C to 40 °C non condensing
Repeatability	± 0.05 °C (even near ambient)
Cooling Capacity ¹	275-330 Watts @ 20°C (20°C ambient) depending on configuration
Heating Capacity	400W @ 20 °C (20°C ambient)
Noise (at 1 meter)	<48 dBA (50% loading), <61 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 1/4" or 3/8" John Guest, CPC, Swagelok or hose barb
Pump Options	1C: ~4.7 lpm @10 psig centrifugal (Contact SSCS for other pump options)
Tank Volume	800 ml with level sensor
Wetted Materials	Copper, brass and polymers or aluminum, stainless steel and polymers
Size (L x W x H)	13 x 11 x 11" (33 x 28 x 28 cm)
Weight	25 lbs (11.3 kg)
Power Input	Universal: 100-240 VAC, 50/60 Hz, 6.5-2.5A max
Communications	Keypad or USB Interface
Alarms	Temperature, fluid level, system or component failure (display and USB)
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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