

# TCube edge

Low Cost, High performance thermoelectric chiller optimized for lasers, optics and life sciences



## Key Features

- Optimized for cost vs. performance
- Precise  $\pm 0.05^{\circ}\text{C}$  temperature control
- Reliable, compact, quiet and energy efficient

# The Right Temperature Without Fail

## Solid State Cooling Systems

### TCube edge



#### Precise, compact and quiet

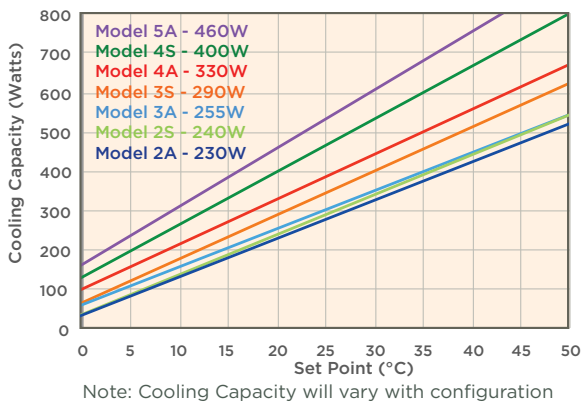
With cooling capacities from 230 Watts to 460 Watts, the TCube edge product family of thermoelectric recirculating chillers has been designed for cost-performance with features that have been specifically optimized for the laser, optics and life sciences markets.

Building on more than twenty years of leadership in thermoelectric technology, these systems offer precise temperature control ( $\pm 0.05^{\circ}\text{C}$  repeatability), long-life reliability, quiet operation and environmental friendliness in a compact size.

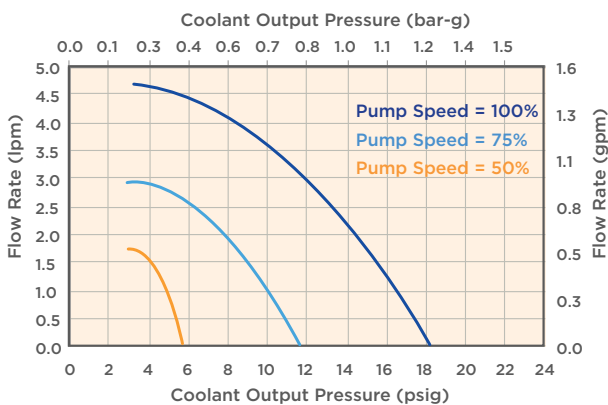
Using universal power our chillers are very energy efficient only drawing power when required.

Models are available with either aluminum or stainless steel wetted materials to ensure compatibility with the systems being controlled.

**TCUBE EDGE COOLING CAPACITY PERFORMANCE MEASURED AT 20°C AMBIENT TEMPERATURE**



**TCUBE EDGE PUMP CURVES**



### SPECIFICATIONS

Operating Range	0°C to 65°C
Ambient Temperature	10°C to 40°C non-condensing
Repeatability	$\pm 0.05^{\circ}\text{C}$ at constant load
Cooling Capacity <sup>1</sup>	230-460 Watts @ 20°C (20°C ambient) depending on model and configuration
Noise (at 1 meter)	-50 dBA at 50% load -63 dBA at 100% load
Process Fluid Fittings	1/4" valved CPC
Pump Type	Adjustable centrifugal pump
Pump Flow Rate	> 2 lpm @ 14 psig (adjustable for pressure sensitive applications)
Tank Volume	1 liter with level sensor
Wetted Materials	Aluminum or Stainless Steel cold plate with compatible materials
Size (L x W x H)	13 x 11 x 11" (33 x 28 x 28 cm)
Weight	25 lbs (11.3 kg)
Universal Power Input	Universal: 100-240 VAC, 50/60 Hz
Maximum Current	3.5/1.5A to 8.5/3.5A model dependent
Communications	Keypad, RS232 or optional Ethernet
Alarms	Temperature, fluid level, system or component failure (display, remote or optional audio alarm)
Standards	TUV listed to UL, CAN/CSA and EN 61010-1, CE 61010-1, RoHS
Warranty	2 years

**Note: This product is still undergoing final Beta Customer testing, so specifications are subject to change.**

#### SOLID STATE COOLING SYSTEMS