

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

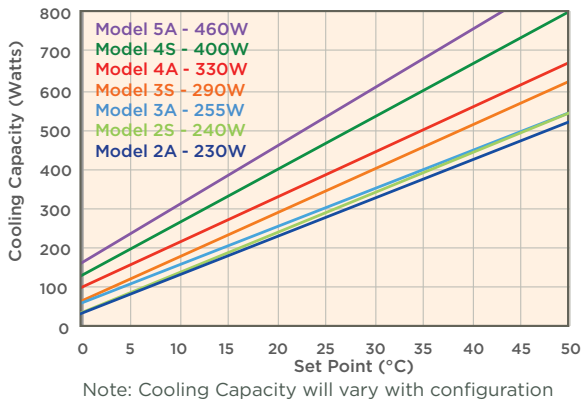
With cooling capacities from 230 Watts to 460 Watts, the TCube edge product family of thermoelectric recirculating chillers has been designed for cost-performance with features that have been specifically optimized for the laser, optics and life sciences markets.

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.

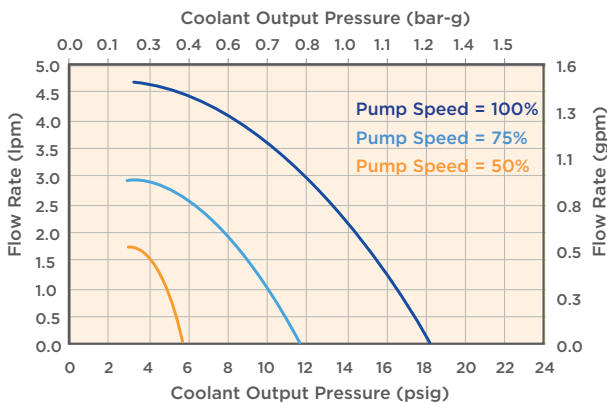
Using universal power our chillers are very energy efficient only drawing power when required.

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 Capacity¹ | 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 |

SOLID STATE COOLING SYSTEMS