

# SOLID STATE RECIRCULATING CHILLER

## T255P

The T255P<sup>®</sup> Chiller is 50% smaller and lighter than a compressor unit with similar capacity. The ThermoTek<sup>®</sup> recirculating chiller offers precise temperature control from -5°C to 45°C with a stability  $\pm 0.1^\circ\text{C}$ . The T255P<sup>®</sup> combines thermoelectric technology with improved electronics that provides both heating and cooling with high reliability.

Our patented power supply and thermoelectric design enables our systems to be the most economical and reliable products on the market. Smart electronics and active control within the T255P<sup>®</sup> uses only the minimum required power to maintain the desired temperature. This product is tested to UL Standard 60601-1, CSA 22.2 and is CE listed per Directive 2006/95/EC. Applications include Electronic, Optoelectronic, Industrial and Semiconductor.



### Features

- \* Lightweight, portable
- \* User friendly interface
- \* Universal power input
- \* Low power consumption
- \* Solid-state technology (*no compressor*)
- \* Environmentally friendly
- \* Leak-free disconnects
- \* Quiet operation
- \* RS-232 interface and computer software
- \* Non-volatile memory set temperature
- \* Wide temperature range





# SOLID STATE RECIRCULATING CHILLER

## T255P

**Note:** The performance of the chiller is based on recirculating water with a 0.6 gpm flow. Individual applications will affect chiller performance. All applications must be approved by **ThermoTek**. Specifications subject to change without notice.

### Equipment Specifications

#### Recommended Coolants:

**Option 1** - Distilled water

**Option 2** - 95% distilled water and 5% alcohol mixture

**Option 3** - 80% distilled water and 20% inhibited Glycol for set temperature below 5°C

**Cooling Capacity:** 210 watts with set point at ambient temperature

**Pump & Fan Configuration:** 12V brushless motor

**Centrifugal Pump:** 1.0 US gpm (3.8 liter/min) open flow water

**System Fluid Capacity:** 15oz (444 ml)

**Heating/Cooling Function:** Yes

**Minimum Flow:** 0.2 US gpm (0.76 liter/min.)

**Dimensions:** 15.2" T x 10.9" D x 8" W (386mm T x 277mm D x 203mm W)

**Refrigerant:** None

**Temperature Range:** 5°C to 45°C (Coolant Option 1 and 2)  
-5°C to 45°C (Coolant Option 3)

**Weight:** (w/o fluid): 19.4 lbs (8.8 kg)

**Shipping Weight:** 23.2 lbs (10.5 kg)

**Power Consumption:** 625 watts max

**Input voltage (Nominal):** 100-240 VAC 50/60 Hz

**Input Voltage (Nominal):** 85-264 VAC 50/60 Hz

**Stability:**  $\pm 0.1^\circ\text{C}$  @ 0.6 US gpm flow, constant load at constant ambient temperature (not to exceed system capacity)

**Max Current:** 7.5 Amps

**RS232 Interface:** Yes

**Ambient Operating Range:** 10°C to 40°C (50°F to 104°F). Indoor Use Only

See our additional Chiller options on our website: [www.thermotekusa.com](http://www.thermotekusa.com)

*ThermoTek, Inc. has been a leader in the industry for more than twenty years. With our innovative designs for precision thermal management solutions and numerous patents on our technology, we continue to push the envelope with new and creative product offerings.*

