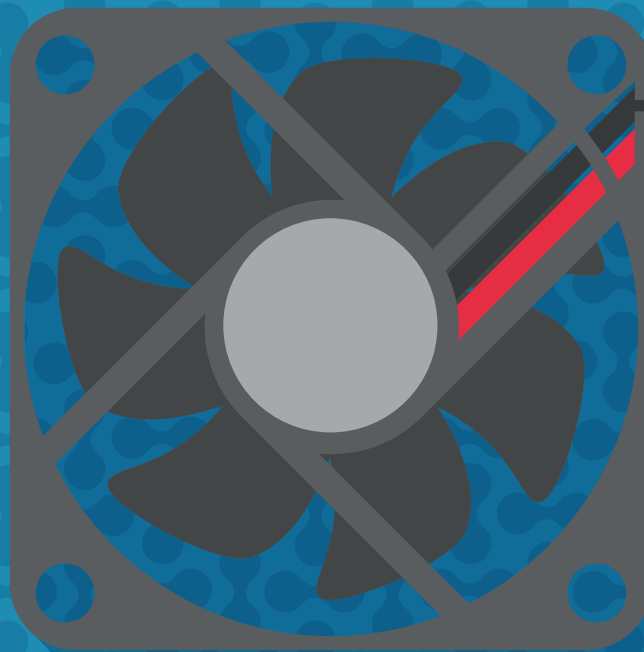


# ***Thermal Management***

*Dc Fans, Heat Sinks & Peltier Devices*



# DEFEAT HEAT

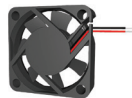
As the heat in applications continues to rise due to increasing power densities, addressing your growing thermal management needs has become more crucial than ever. To help keep your design running at its peak condition, we have developed a thermal management portfolio that encompasses a range of dc fans, heat sinks, and Peltier thermoelectric cooling devices.

## ENGINEERING TOOLS



### Parametric Search

With hundreds of dc fans, heat sinks, and Peltier devices to choose from, utilize our online parametric search tool to quickly find and compare models based on your key specifications.



### 3D Models

CUI's library of ready-made 3D models helps to streamline the design process, saving you precious time and resources. Users are able to view and download 3D models in all major mechanical CAD formats free of charge.



### Thermal Calculators

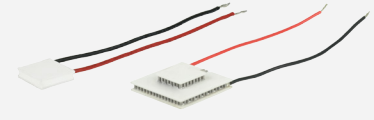
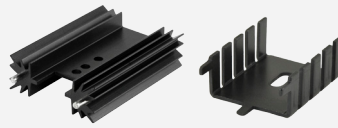
Use our airflow and thermal conversion calculators to quickly convert between common units for volume airflow, air velocity, thermal resistance, specific heat, thermal conductivity, and thermal conductance.

## GLOBAL STOCK AVAILABILITY

Our network of global distribution partners provides you with quick and easy access to hundreds of our thermal management products, ready to ship same day across the globe. This strong distribution presence provides our customers with peace of mind knowing that their project will be supported from prototype all the way to production by in-stock inventory and world-class supply chain programs.



# THERMAL MANAGEMENT PRODUCT LINE



## Dc Fans

### Axial Fans & Centrifugal Blowers

- 40 ~ 120 mm frame sizes
- Airflows up to 200 CFM
- 5, 12, 24, 48 Vdc rated voltages
- Dual ball bearing & omniCOOL™ system construction
- Auto restart protection
- Tachometer signal, rotation detector & PWM control signal options
- 1,700 ~ 8,500 RPM rated speeds
- 0.04 ~ 5.22 in H<sub>2</sub>O static pressures
- 10.7 ~ 69.9 dBA noise levels

## Heat Sinks

### Extruded & Stamped Versions

- Aluminum & copper heat sinks
- TO-218, TO-220, TO-252 & TO-263 transistor package types
- Thermal resistances down to 4.49°C/W at 75°C, nat conv
- Power dissipation ratings up to 16.7 W at 75°C, nat conv
- Black anodized & tin plated material finishes
- Available with or without solder pins
- Vertical or horizontal solder pin orientations

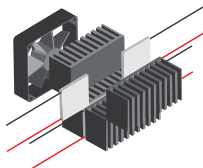
## Peltier Devices

### 10 ~ 70 mm Package Sizes

- Profiles as low as 3 mm
- 0.8 ~ 15 A current ratings
- 72 up to 105°C ΔT<sub>max</sub> (Th=50°C)
- Precise temperature control
- Solid state construction
- High performance modules with arcTEC™ structure
- Two-stage modules with high ΔT<sub>max</sub>
- Peltier cooling units available with better seal structure

## Custom Capabilities

Dc Fans	Heat Sinks	Peltier Devices
<p>Multiple External Modifications</p> <p>Custom Wires</p> <ul style="list-style-type: none"> <li>• Tachometer signal</li> <li>• Rotation detector</li> <li>• PWM control signal</li> <li>• Modified wire lengths &amp; gauges</li> <li>• Custom connectors</li> </ul>	<p>Multiple Production Methods</p> <ul style="list-style-type: none"> <li>• Extrusion</li> <li>• Stamping</li> <li>• Forging</li> <li>• Die casting</li> </ul> <p>Range of Materials</p> <p>Variety of Finishes</p> <ul style="list-style-type: none"> <li>• Black, clear &amp; color anodization</li> <li>• Chromate powder coating</li> <li>• Nickel &amp; zinc plating</li> </ul> <p>Hole Punching Options</p>	<p>Variety of Shapes &amp; Sizes</p> <ul style="list-style-type: none"> <li>• Square profiles up to 62 mm</li> <li>• Rectangular profile lengths up to 89 mm</li> <li>• Round profiles up to 50 mm in diameter</li> <li>• Available with or without center hole</li> </ul> <p>Custom Wires</p> <ul style="list-style-type: none"> <li>• Modified wire lengths</li> <li>• Custom connectors</li> </ul> <p>Heat Sink Integrations</p> <ul style="list-style-type: none"> <li>• Add heat sinks to our Peltier modules using thermal interface materials (TIM) for improved thermal performance</li> </ul>



## Thermal Integrations

In addition to our individual custom offerings, CUI's dc fans, Peltier modules, and heat sinks can be combined and mounted together using thermal interface materials (TIM) to achieve more complex custom thermal solutions. This capability allows us to meet your exact thermal requirements without compromise.



Headquarters  
20050 SW 112th Avenue  
Tualatin, Oregon 97062

1-800-275-4899

[www.cui.com](http://www.cui.com)



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