



# Thermal Characterization Lab

A UNIQUE FACILITY FOR A VARIETY OF ELECTRONICS COOLING EXPERIMENTS

## Free Use of Thermal Characterization Lab

ATS provides a half-day of free, no-obligation use of its unique Thermal Characterization Laboratory to engineers who need to perform thermal testing for their heat sinks, fans and fan trays, PCBs, blades, enclosures, or complete systems. Experienced engineers, board and system designers can perform the tests themselves, or consult with an ATS thermal engineer at no cost during their 4 hours of laboratory time.



## Lab Capabilities

- Full range of research-quality instruments
- Open and closed loop wind tunnels, for ambient and elevated temperature testing
- PC-driven controls and automated data collection
- Complete array of ATS' temperature & velocity sensors
- JEDEC approved component thermal testing facility for conducting multitude of device level testing per JEDEC standards.
- Liquid crystal and IR thermography systems for non-invasive temperature mapping to 0.1°C with one micron-level spatial resolution
- Liquid cooling facility for complete testing and characterization of cold-plates, cooling effect and proof of concept testing



All testing and results reporting are completely confidential. Certain restrictions and limits on customer products may apply, e.g. overall size. Consultation prior to use of the lab is not charged or considered part of the free time offer. ATS thermal test engineers will also advise lab patrons how to optimize their free testing period prior to arriving.

For more information, please contact Advanced Thermal Solutions, Inc. at **1-781-769-2800** or **www.qats.com**.

## LAB FEATURES:

### » Wind Tunnels

Open and closed loop wind tunnels for ambient and elevated temperature testing-section

### » Temperature & Velocity Sensors

Full range of sensors for characterizing electronic products under variable airflow and temperature conditions

### » JEDEC Approved Testing Facility

Device level testing according to JEDEC standards

### » Liquid Crystal & IR Thermography

For non invasive temperature mapping to 0.1°C with one micron level spatial resolution

### » Liquid Cooling Facility

Characterization of cold plates, cooling effect and proof of concept testing

## OFFER DETAILS:

### » Half-Day of Lab Time

Free use of ATS' Thermal Characterization Lab for up to four hours

### » Free Consultation

ATS engineers advise lab patrons on how to optimize their free testing period prior to arriving

### » Confidentiality

All testing results will remain strictly confidential