



# WTC-100™

## WIND TUNNEL CONTROLLER

The WTC-100™ Wind Tunnel Controller is a device to control the air velocity in a chamber-like wind tunnel or card rack.

The WTC-100™ helps automate thermal characterization of heat sinks, boards and components in a wind tunnel or card rack testing for different fan tray configurations. It has two independent sensors for determining air temperature and velocity to facilitate rapid feedback of the airflow inside the test chamber. The controller communicates with a PC through a USB port, enabling the user to fully automate air flow testing. Uni-sensor based control and measurement enables the user to control the air flow anywhere inside the test chamber.



**Rear View**



The flow range, step increment and the dwell time are set from the stageCONTROL™ application software by the user.

**DIMENSIONS (L X W X H)**  
350 mm x 264 mm x 114.6 mm  
(13.8" x 10.4" x 4.5")

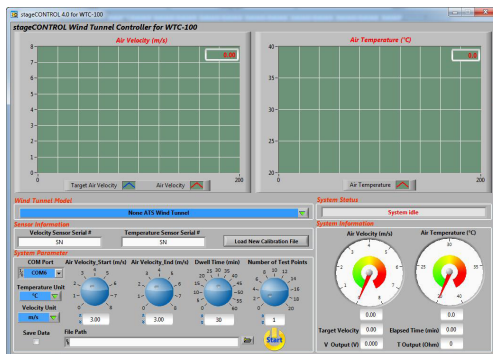
**POWER**  
115 VAC input power

**VELOCITY RANGE**  
0.2 to 50 m/s (60 to 10,000 ft/min)

**TEMPERATURE RANGE**  
-10°C to 120°C

**SOFTWARE**  
stageCONTROL™

**CONNECTION TYPE**  
USB port



**stageCONTROL™**

**FEATURES:**

- » **Automatic Controller**  
Fully automatic controller for components, heat sinks, and card rack characterization
- » **Independent Sensors**  
Two independent sensors for measuring air temperature and velocity simultaneously
- » **Highly Accurate**  
Feed back control to maintain air velocity in the test domain +/- 0.5% of the set velocity
- » **Wide Velocity Range**  
Control velocities from 60 to 10,000 ft/min depending on the system fan tray
- » **Temperature Range**  
Measures temperatures from -10°C to 120°C
- » **Easy Flow Setup**  
Enables ramping of flow from a set minimum to a set maximum at specified points. Sets dwell time at each measurement point.
- » **stageCONTROL™ Software**  
User friendly labVIEW™ based application software creates easy data viewing and logging
- » **Time-Efficient**  
WTC-100™ saves testing time by facilitating automatic air flow control and measurement.
- » **Free Lifetime Tech Support**

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

