

# LABORATORY-GRADE BENCHTOP CLOSED LOOP WIND TUNNEL



**WT-3115**



- ✓ Quick Access Panel
- ✓ Sensor Ports (6)
- ✓ Wind Tunnel Controller
- ✓ High Quality Flow, Low Turbulence

## Applications

- ✓ High Temperature Testing
- ✓ Heat Sink Characterization
- ✓ Sensor Calibration
- ✓ Component Testing
- ✓ Aerodynamic and Pressure Drop Measurement
- ✓ Multiple PCB Testing

The WT-3115 is a research-quality closed loop wind tunnel that provides a convenient, accurate system for thermally characterizing PCBs and individual components at elevated temperatures from ambient to 85°C (185°F).

The WT-3115 wind tunnel produces air flows up to 5 m/s (1000 ft/min). With customization, it can generate flows up to 50 m/s (10,000 ft/min) using orifice plates (available optionally). The clear polycarbonate test section lets the user view the test specimen and allows for flow visualization.



WT-3115 shown smaller than actual size.

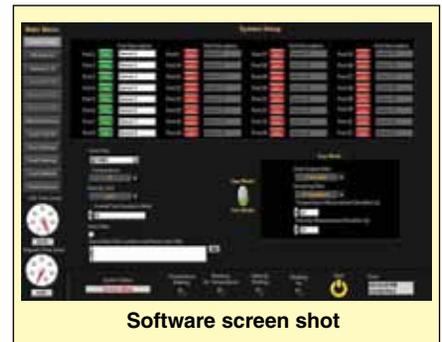
Unlike open loop wind tunnels, the WT-3115 recirculates internal air. This allows the system heater to rapidly warm the air to a specific temperature. The testing of boards and components in hot air is a requirement in some NEBS and other standards. The precise controls and temperature range of the WT-3115 wind tunnel allows its use for testing heat sink performance and for calibrating air and temperature sensors

The complete wind tunnel fits on most lab benches and is powered from standard AC outlets. It has a smaller footprint than traditional, closed loop wind tunnels or environmental test chambers.

The WT-3115 is provided with a controller for controlling the flow and temperature in the wind tunnel. The controller comes with a graphical user interface to automate the wind tunnel operation.

The WT-3115 test section can be accessed from the top door or sides for mounting and repositioning of boards, components and sensors. Internal rail guides provide an easy mechanism to install test specimens of different sizes (e.g., PCB, heat sink).

Instrument ports (6) are provided in the side walls of the test section for placing temperature and velocity sensors such as thermocouples, pitot tubes and hot-wire anemometers.



## SPECIFICATIONS

**Wind Tunnel:**  
220.8 L x 49.3 W x 86.5 cm H  
(86.9 x 19.4 x 34")

**Test Section:**  
77.6 L x 26 W x 11.6 cm H  
(30.5 x 10.2 x 4.5")

**Number of Sensor Ports:** 6  
**Flow Range:** 0 to 5 m/s  
(0 to 1000 ft/min)

**Flow Uniformity:** ±1%

**Flow Accuracy:** ±2%

**Temperature Range:**  
Up to 85°C (185°F)

**Temperature Accuracy:** ±1°C

**Weight:** 65 kg (231 lb)

**Main AC Voltage:** 220 Vac

**Main AC Fuse:** 20 Amps

**Minimum Support Table Size:**  
140 L x 50 cm W (55 x 19.7")

## To Order

Model No.	Description
WT-3115	Laboratory-grade benchtop closed loop wind tunnel

Comes complete with wind tunnel controller, (6) instrument ports, software and operator's manual.