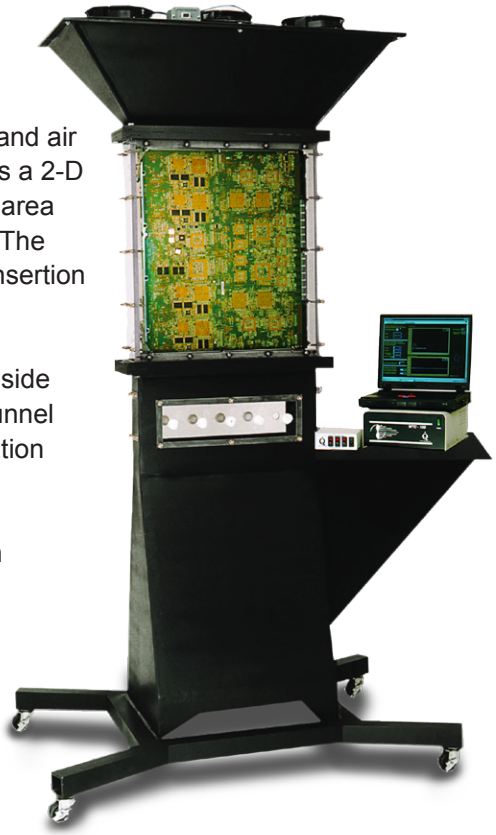
CWT-PCB™

TEST MULTIPLE PCBs IN WIND TUNNEL



A unique, fully controllable wind tunnel for thermal and air flow testing of multiple PCBs. The test chamber has a 2-D converging nozzle with a multi-point measurement area for sensor placement upstream of the test section. The test section is equipped with card guides to allow insertion of actual or simulated PCBs from the side panel.

The wind tunnel is designed to test up to six PCBs side by side as seen in a electronic cabinet. The wind tunnel can also be used for standard thermal characterization such as component, PCBs, cold plates, etc.

The chamber can accommodate up to 6 PCBs with 13 mm (0.5") card-to-card spacing or 3 PCBs with 25 mm (1") card-to-card spacing.

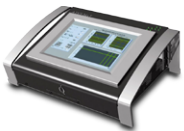
The test section is made of clear polycarbonate material to accommodate smoke flow visualization. The chamber hasits own stand for placement of instruments. The **CWT-PCB™** is placed on castors for ease of transportation.

The **CWT-PCB™** can be fitted with different fan trays to accommodate a broad air flow range. Heating elements can be added for elevated air temperature testing.

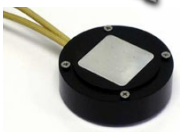
* Power supply not included.

RECOMMENDED ACCESSORIES:

WTC-100™
Wind Tunnel Controller



ATVS-NxT™
Hot Wire Anemometer



HP-97™
High Power Component Simulator

OVERALL DIMENSIONS (L X W X D)
215.5 x 114.3 x 91.4 cm
(84.5 x 45 x 36")

TEST SECTION
61 x 47 x 7.6 cm
(24 x 18.5 x 3")

NUMBER OF SENSOR PORTS
18

FLOW RANGE
0 to 10 m/s (0 to 2000 ft/min)

WEIGHT
74kg (164 lbs)

POWER SUPPLY REQUIREMENTS
24VDC at 4.3 Amps

FEATURES:

- **Multiple PCB Testing**
  Test actual or simulated PCBs for thermal and air flow distribution
- **Heat Sink Characterization**
  Characterize a variety of heat sink sizes for natural and forced convection cooling
- **Sensor Calibration**
  Uniform velocity profile at the testing section allows accurate calibration of sensors
- **Heat Sink Comparison**
  Multiple PCBs testing simulated up to six PCBs in parallel
- **Component Testing**
  An ideal test vehicle for component characterization
- **Flow Visualization**
  Observe air flow distribution in the tunnel by smoke or buoyant bubbles through the all Plexiglas™ test section
- **Variable Speed**
  Change air flow rates by controlling the fan RPM
- **Quick Access**
  Quickly change the test specimen through the test section cover and side access
- **Sensor Ports**
  Measure pressure, velocity and temperature through the sensor ports

APPLICATIONS:

- **Telecommunications**
- **Automotive**
- **Medical Instrumentation**
- **Thermal Management**
- **Pharmaceuticals**
- **Chemical**
- **University Research**

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