

CWT-107™

Unique Open Loop Wind Tunnel for Thermal Characterization of Components, Boards and Heat Sinks

The CWT-107™ is a research quality, open loop wind tunnel for thermal characterization of components, boards and heat sinks. It can produce uniform and homogeneous flow, up to 6 m/s (1200 ft/min) within the wind tunnel's test section due to its polynomial shape and internal flow management system, which features honeycombs and screens to break up turbulence.

The CWT-107™ can be operated vertically or horizontally and is made of aluminum and stainless steel with a see-through test section for ease of flow visualization.

The wind tunnel has an access door, conveniently located in the front of the test section for the mounting of boards and, optional internal rail guides that allow for the simple installation of different test specimens such as PCBs and heat sinks. In addition, there are 18 sensor ports in the front and on the sides of the test section for inserting a variety of probes, such as thermocouples, Pitot tubes, velocity measuring sensors, etc.

Each CWT-107™ fan tray is equipped with 24 volt-DC fans, which are individually controlled to generate airflow, and is fully compatible with ATS' WTC-100™ Wind Tunnel Controller that helps automate thermal characterization. ATS also carries a full line of temperature, flow and pressure sensors and scanners that are designed for use with the CWT-107™.

* Power supply not included.

RECOMMENDED ACCESSORY: WTC-100



- » **WTC-100 Wind Tunnel Controller**
- » **ATVS-2020 Temperature & Velocity Scanner**
- » **Complete range of temperature and flow sensors**



OVERALL DIMENSIONS (L X W X H)

197.7 cm X 76.2 cm X 101.6 cm
(77.84 X 30 X 40")

TEST SECTION

60.96 cm X 60.96 cm X 17.8 cm
(24 X 24 X 7")

MATERIALS

ALUMINUM, PLEXIGLAS
& STAINLESS STEEL

FLOW RANGE

0 TO 6 M/S (1200 FT/MIN)

WEIGHT

53 kg (118 lbs.)

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



ATS ADVANCED
THERMAL
SOLUTIONS, INC.
Innovations in Thermal Management®

- » **Heat Sink Characterization**
Characterize a variety of heat sink sizes for natural and forced convection cooling
- » **Heat Sink Comparison**
Test two heat sinks side-by-side and compare their thermal performance in the same environment
- » **Component Testing**
An ideal test vehicle for component characterization
- » **Multiple PCB Testing**
Test actual or simulated PCBs for thermal and flow distribution
- » **Flow Visualization**
Observe flow distribution in the tunnel by smoke or buoyant bubbles through the all Plexiglas® test section
- » **Variable Speed**
Change flow rate by controlling the fan RPM
- » **Quick Access**
Quickly change the test specimen through the front access test section
- » **Sensor Ports**
Measure pressure, velocity and temperature through the sensor ports
- » **Data Center**
View data and monitor events at the data center (with optional accessories)
- » **Flow Characteristics**
High quality flow with very low turbulence intensity

RoHS Compliant