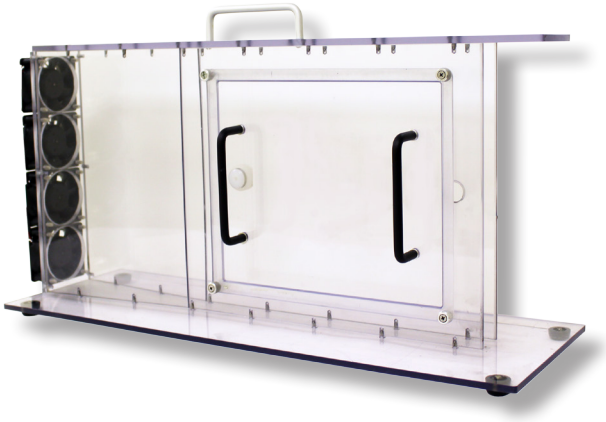
BWT-100™

RESEARCH QUALITY BENCHTOP WIND TUNNEL



The **BWT-100™** is a unique, small benchtop portable wind tunnel for thermal characterization of components, boards and heat sinks. The unit is made of Plexiglas, weighs less than 4 kg (8 lbs) and produces flows up to 2 m/s (400 ft/min).

It can be placed horizontally or vertically to adapt to direction-sensitive cooling systems. The **BWT-100™** test section is rear accessed and accommodates a removable test plate for mounting of the test specimens. In another version of the test plate, insulated heat slugs are provided for heat sink characterization tests. Four small DC muffin fans can be individually controlled to generate the flow inside the **BWT-100™**.

The test section is flush-mounted to the base of the **BWT-100™** to eliminate any flow disturbances. Instrument ports are provided on the front panel of the unit for placement of temperature, velocity and pressure sensors.

Sensors to measure the flow parameters are also supplied by ATS as optional accessories.

* Power supply not included.

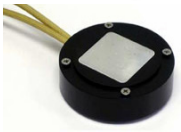
RECOMMENDED ACCESSORIES:



WTC-100™
Wind Tunnel Controller



ATVS-NxT™
Hot Wire Anemometer



HP-97™
High Power Component Simulator

OVERALL DIMENSIONS (L X W X D)
58 x 30.4 x 18.4cm
(22.8 x 12 x 7.24")

TEST SECTION DIMENSIONS (L X W X D)
30.6 x 25.4 x 2.5cm
(12 x 10 x 1")

FLOW RANGE
0 to 2 m/s (0 to 400 ft/min)

NO. OF SENSOR PORTS
2

MATERIAL
Aluminum, Plexiglas

WEIGHT
4 kg (8 lbs)

POWER
24VDC at 0.02 Amps

FEATURES:

» **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 air 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 rates 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) Software not included

» **Free Lifetime Tech Support**

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