



AIR FLOW TEST STAND



Air Flow Test Stands (AFTS) are used in determining fan performance as well as determining air side enthalpy measurements for testing of heat exchangers.

Our Air Flow Test Stands are custom built to meet customer requirements. These systems can be provided with manual controls or fully automatic data acquisition and control systems.

CTS designs and manufactures each one of its air flow test stands in accordance with standards put forth by ANSI/ASHRAE 51 and ANSI/AMCA 210.

Performance Specifications:

- Air Flow Capacities up to 70,000 cfm.
- Control Stability of 1% or better
- 1% repeatability of test results

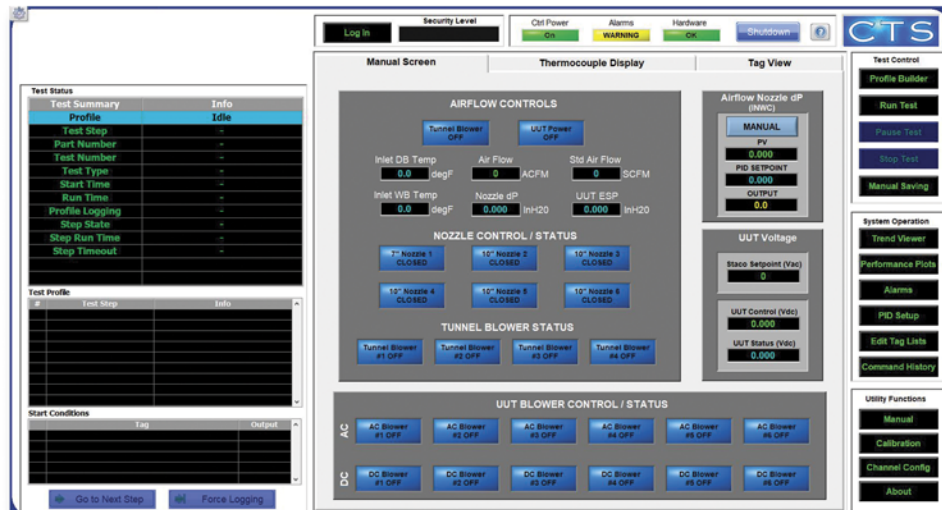


System Design & Features

- > Welded Tunnel to eliminate air leakage
- > Shear Type centrifugal mixers to thoroughly mix Unit Under Test discharge air
- > Venturi-type nozzle to correct temperature and moisture uniformity
- > Air flow sampling system to obtain accurate dry bulb, wet bulb or dew point temperatures
- > AMCA air flow nozzles with manual or automated dampers
- > Computerized Data Acquisition and Control System using LabView
- > Conformance with ANSI/ASHRAE 51 and ANSI/AMCA 210

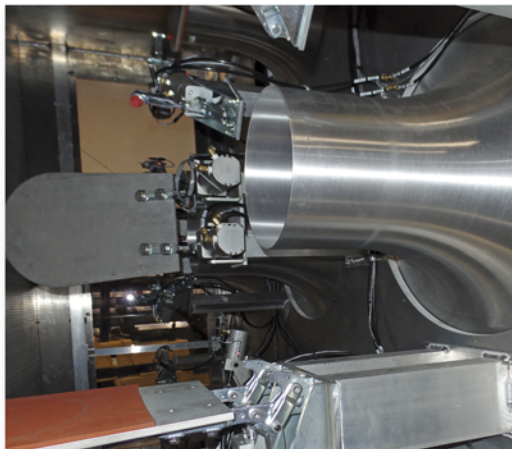
Control System

- > Control System: Allen-Bradley PLC
- > Operator Interface: Labview Based Application
- > Control Station: Windows Based PC



Software Features

- > Editing of test programs
- > Automatic test sequencing
- > Loop calibration and calibration reports
- > Hardware checkout routine
- > Stability monitoring
- > Real Time tolerance adjustments
- > Real Time history graphing capability
- > Automatic test report generation
- > Data File Management
- > Performance Plots Generation



Bringing the Desired Climate to Your Doorstep

Climatic Testing Systems

2367 North Penn Road
Hatfield, Pa 19440
Phone (215) 773-9322
Fax (215) 773-9323
www.climatictesting.com