

Air Flow Measurement Tunnel

Accurate flow measurement with calibrated, industry-compliant air flow tunnels

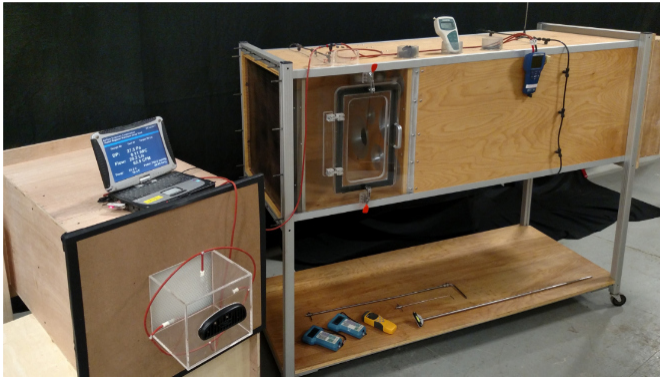
ASE designs and manufactures Air Flow Tunnels that meet the industry standard test specifications of ANSI/AMCA 210 and ASHRAE 51. These tunnels allow highly accurate flow measurement, automated data logging, and immediate reporting. Tunnel sizes range from small for leakage testing to king-sized for large fan testing. The systems can be configured to measure more than just flow, with aux inputs such as RPM, fan volts/amps, and system pressure drop.

The ASE Air Flow Tunnel is the perfect flow measurement system for automobile climate control systems, fan testing and curve generation, pressure drop versus flow rate data (for valves, orifices, ductwork, dampers, register vents, etc.), and general flow equipment performance tests.

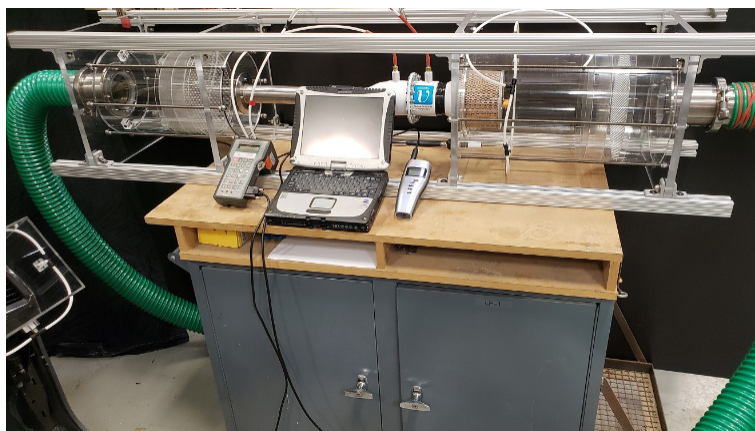
Air Flow Tunnel Options

ASE manufactures air flow tunnels to customer specifications, as shown below:

- Model AFT-3 (0.15 to 3.0 CFM)
- Model AFT-7.5 (0.4 to 7.5 CFM)
- Model AFT-100 (5 to 100 CFM)
- Model AFT-500 (10 to 500 CFM)
- Model AFT-1500 (10 to 1500 CFM)
- Model AFT-3000 (50 to 3000 CFM)
- Model AFT-12000 (50 to 12000 CFM)
- Custom (you name it, we'll build it)



Air Flow Tunnel with Multiple Calibrated Nozzles, (AFT-1500)



Air Flow Tunnel with Laminar Flow Element, (AFT-100)

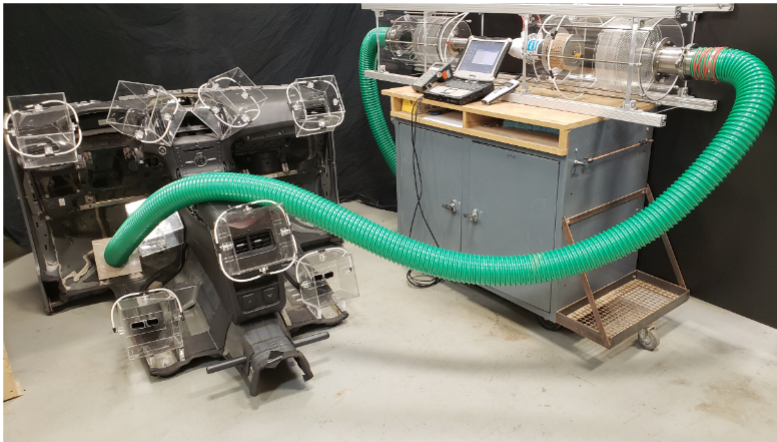
Air Flow Measurement Tunnel

Software / Data Logger Options

Our PC-based software performs data logging for all flow tunnel components (fan, transducers, temperature), ambient conditions (pressure, temperature, humidity), and Unit Under Test (UUT) operating conditions (fan voltage, RPM, actuator motor voltage). The software allows user input of test conditions as well as the selection of the nozzle. Additionally, it displays on-screen results during testing and exports all data to an Excel spreadsheet for final import.

Flow Testing Examples

Some example applications of the ASE Air Flow Tunnel are shown below.



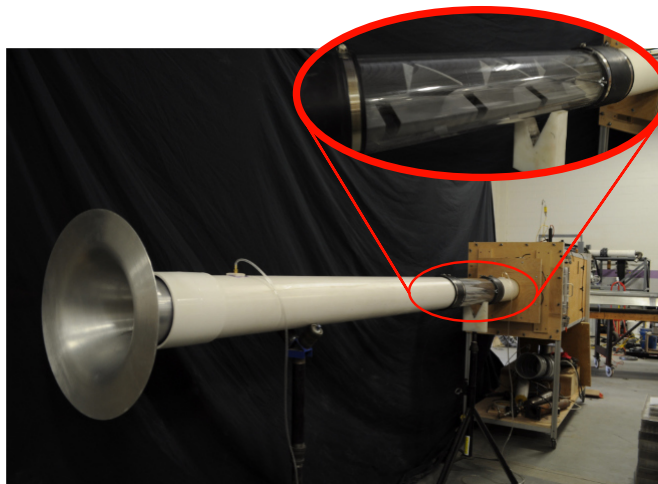
Automobile climate control system flow measurement



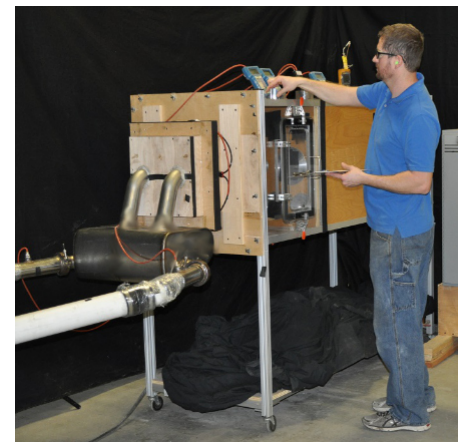
Valve pressure drop test.



A/C vent pressure drop.



Pressure drop across a temperature mixing device.



Exhaust system DP vs. Flow

What can we do for you?

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