



Trane[®] myTest[™]

Witness Testing for Custom Air Handling Units



Built for performance, tested to prove it

When you purchase Trane Custom Air Handling Units, you are buying the highest level of precision performance for your specific applications. The Custom Air Handling Unit team at Trane invite you to personally witness that performance before your custom unit leaves our Fort Smith, Arkansas manufacturing facility. Follow along on the test drive as we validate performance against your stringent criteria for effectiveness, efficiency and maintenance. You've put your trust in Trane, and seeing is believing.

Gain transparency into Trane products and processes

Trane Custom Air Handling Units are built based on years of air handling engineering knowledge and performance testing. Specific aspects of critical performance may be tested upon request. You are invited to witness this event, while spending additional time becoming more familiar with Trane manufacturing.

- **Watch the test drive** — gain confidence in your Trane product before installation
- **Tour our manufacturing facility** — see our quality processes in action
- **Learn about upcoming Trane innovations** — find out what Trane is doing to meet your future needs
- **Schedule a Design Day** — starting a new project that may require Custom Air Handling expertise? When you schedule a Design Day at our Fort Smith facility, we will introduce you to new choices and help you make informed decisions that meet the unique needs of your project.

In-person or virtual: Choose your experience

Visiting our facility is ideal. If you can't be here in person, there are a few alternatives. Whichever approach you choose, you will receive a full report of testing results.

Options include:

- 1** Live and in-person at the Fort Smith facility during the actual testing event
- 2** Watch along virtually in real time
- 3** View a test recording any time, and share it with your peers



Scope of Available Testing

We don't just meet your expectations; we strive to exceed them. Upon request, your Trane Custom Air Handling Units can be rigorously tested for four key performance factors.

Airflow delivery at static pressure (airflow precision)

Using advanced, industry-accepted methodologies like fan piezometer or duct pitot traverse measurement, we ensure airflow delivery falls within design specifications. Plus, we can test at 50% of design flow to guarantee versatility that doesn't compromise efficiency.

Steps taken:

- Static pressure simulation by restricting dampers or coils, etc. inside the Custom Air Handling Unit for piezometer testing
- Readings taken for airflow, static pressure and fan power consumption
- For optional pitot traverse testing, units connected to test ducts following AMCA 210 Field performance measurement of fan systems

Sound pressure readings (noise control)

Quiet operation is key to occupants' comfort, concentration and overall satisfaction. We validate unit noise levels by taking octave band sound pressure readings at various points.

Steps taken:

- Handheld sound analyzer/filter takes 8 octave band pressure readings at multiple locations, under various fan operating conditions
- Readings taken outside fan section casing, unit return inlet and unit supply discharge

Vibration analysis on fans

Through vibration testing on the horizontal axis and vertical axis, we verify that units operate within optimal parameters according to AMCA 204 standards. Smooth, vibration-free performance is important to your air handler's longevity and reliability.

Steps taken:

- Vibration testing using accelerometers
- Motors powered to design speed, with vibration sensors strategically placed
- Isolators locked down to ensure accurate readings

Casing air leakage and deflection assessment

Stringent testing standards align with ASHRAE 111 and AHRI 1350 guidelines to ensure minimal leakage and deflection. Minimizing leakage is critical to maintaining the structural integrity and efficiency of Custom Air Handling Units.

Steps taken:

- Unit openings sealed, with external test fans generating test pressure
- Air leakage determined using a calibrated orifice
- Panel deflection measured with digital micrometers

Protect your professional reputation

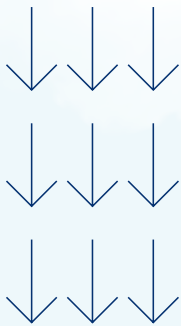
Trane myTest witness testing allows you to validate performance while Custom Air Handling Units before your custom unit leaves our factory. Units don't ship until you are satisfied with testing results.

Schedule your test visit today

Coordinate scheduling with your Trane representative. We can help you decide whether in-person, virtual or video witness testing is best for your situation. You'll receive a full report of testing results no matter which method you choose.

Get it right from the start: Schedule a Design Day with Trane

Starting a new project that may require custom air handling expertise? New compliance standards and sustainability preferences have spurred a flood of new technologies. Now more than ever, you need a clear understanding of the available options for custom air handling units. When you schedule a Design Day at our Fort Smith facility, we will introduce you to new choices and help you make informed decisions. Together, we will work through the specifications, analyze requirements and determine the best way to balance various needs including efficiency, performance and cost.



Contact your Trane Account Manager or Scan the QR Code to locate a local Trane Sales Office.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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