



Make Balancing Smarter, Not Harder:

4 Professional Air Balancing Tips using TSI's Alnor™ EBT731 Balometer™ Capture Hood

Whether you're supporting a mechanical contractor, running service calls in commercial buildings, or expanding TAB best practices nationwide—getting airflow right is non-negotiable. TSI's Alnor™ EBT731 Balometer™ Capture Hood isn't just a hood, it's a full diagnostic tool designed to help pros like you get accurate results fast.

1. Don't Just Trust the Outlet— Check the System

Readings at the diffuser don't always tell the whole story. Duct leakage, ineffective controls, bad zoning, or upstream restrictions can skew your numbers.

Pro Tip: A duct traverse is the most accurate way to measure airflow coming out of the air handling unit (AHU). Start with a duct traverse. The TSI's Alnor™ EBT731 Balometer™ Capture Hood's micromanometer, paired with a pitot tube or airflow probe, gives you the upstream data you need. Once the system checks out, move to the outlets with the capture hood and use correction factors to ensure what's being displayed is the true flow.

2. Good Gear Means Good Readings

Reading-to-reading error margins can add up, especially when small inaccuracies occur across multiple diffusers. You can't balance a system with a capture hood that's off by 5–10%. Let's just say—you get what you pay for.

TSI's Alnor™ EBT731 Balometer™ Capture Hood Advantage:

- NIST-Traceable Calibration
- ±2% pressure reading accuracy (+/- 0.025 Pa H₂O adder)
- ±3% velocity reading accuracy (+/- 0.04 m/s adder)
- Auto-zeroing sensor to reduce user steps
- Ideal airflow readings in a general HVAC system are typically within ±10% of design airflow. With specifications well below this threshold, TSI's Alnor™ EBT731 Balometer™ Capture Hood delivers the accuracy that serious work demands—no guesswork. Ensuring the variation comes from the system design, and not your instrument.





3. Measure VAV Systems Like a Pro

VAV (variable air volume) systems dominate commercial spaces—but calculating airflow at minimum settings isn't always straightforward. Low flow, low turbulence, and diffuser effects can lead to junk data.

How to Nail It with TSI's Alnor™ EBT731 Balometer™ Capture Hood:

- Use Consistent Technique for Repeatability. Keep the hood centered and seated squarely on the diffuser with an even seal. Variations in hood position can cause large swings in readings.
- Compensate via correction factors when characterizing the hood to the outlet (diffuser/grille).
- When in doubt, and as possible, traverse the duct. A downstream duct traverse using the included Alnor™ Micromanometer EBT730 with a pitot tube or thermal anemometer offers a reliable way to validate readings—especially at low flows or when diffuser effects create measurement uncertainty.

4. Size, Stability & Setup: Why Capture Hood Fit Matters

Ever had a capture hood collapse mid-read or leak air out the sides? Some hoods are too flimsy or oversized, which means bad seals, unstable readings, and do-overs.

TSI's Alnor™ EBT731 Balometer™ Capture Hood Gets It Right:

- Multiple hood sizes to match your outlets.
- Strong frame with reinforced but flexible hood support poles—sturdy without being bulky.
- Quick to set up, easy to break down.

The wrong hood size can throw you off by 20% or more. The right fit makes all the difference.

TSI's Alnor™ EBT731 Balometer™ Capture Hood: Built for the Real World

This isn't just another airflow hood; it's a precise instrument that adapts to how you actually work. With built-in diagnostics, versatile accessories, and rugged reliability, TSI's Alnor™ EBT731 Balometer™ Capture Hood helps you:

- Nail airflow readings—at the box, the diffuser, or mid-system
- Cut time on-site with fast setup
- Trust your data and avoid rework
- Adapt to each job with interchangeable hoods, probes, and micromanometer options
- When accuracy matters and conditions aren't perfect,

You can always count on blue.



Discover how the TSI Alnor® EBT731 Capture Hood can elevate your balancing workflow at: tsi.com/balancelikeapro

