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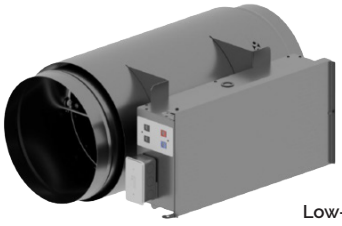
Delta Air Valve (DAV)

Factory-integrated air terminal that cuts install time, commissioning effort, and callbacks.

Built for System Integrators and Mechanical Installers who want to deliver fast, repeatable, reliable projects with fewer ladder trips and fewer callbacks

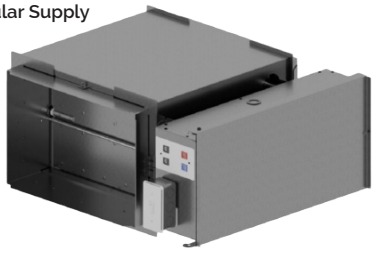
DAV at a Glance

- 100:1 turndown enables one size can cover many zone airflow requirements (e.g 25-2500CFM)
- Operates accurately at ultra-low pressure (down to 0.03 in. w.c.)
- +/- 3% accuracy (above 200FPM, +/- 6FPM below 200FPM)
- Proviso (NFC) pre-power provisioning: network + database selection done before startup
- Standardized ASHRAE Guideline 36 aligned databases, written in GCL+, available out of the box



Low-profile Round Exhaust

Low-profile Rectangular Supply



The Challenge

Traditional VAV installs burn time (and profit)

- Field-mounting and wiring actuators, sensors, and reheat components on every box is slow and error-prone
- Sorting through complex mechanical schedules to find the right duct size, reheat option, and accessories is time-consuming
- Coordinating trades can create scope confusion, unexpected downtime, and delayed schedules

The Solution

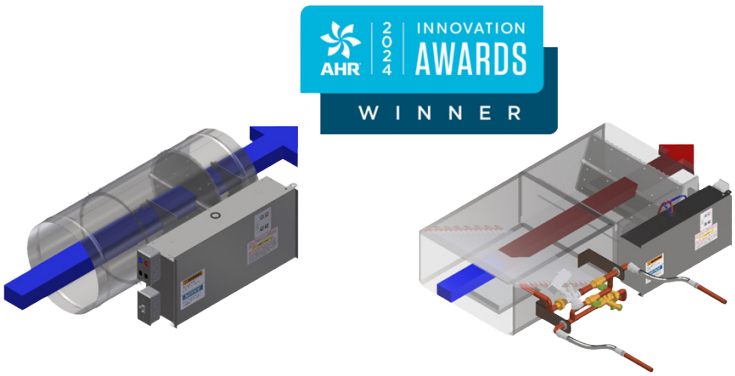
What DAV Changes On- Site

- DAV ships as a packaged assembly with controls & peripherals, reheat coils, etc already installed.
- A single size covers most zones. Simplified sizing reduces wrong-box installs and layout confusion.
- Packaged assembly and simplified sizing reduce scope confusion, downtime, and project stalls.
- Design changes and revisions become set-point/software updates instead of terminal swaps.

Commissioning, Made Easy

Commissioning often means repeated ladder trips to provision devices, correct wiring issues,troubleshoot networks, reconcile airflow readings, and tune sequences.

- With Proviso (NFC), apply BACnet/network settings and select the correct control database before the controller is powered. Devices power up provisioned and ready to commission.
- Factory airflow validation of the complete assembly (terminal, flow sensing, actuator, and controller) ensures accuracy and performance. No need for airflow sensor calibration on site reduces time and cost.
- Pre-wired controls reduce wiring mistakes
- Standardized, validated Guideline 36 (G36) aligned databases, written in GCL+, are built-in and ready to use.
- Native compatibility with Delta tools and ecosystem (BACnet/SC, Python, MQTT, Proviso, RED5, O3, UNOSlim, enteliWEB, and more)



Reduce Callbacks

When systems don't perform as expected, the SI gets the call; even if the issue stems from cascading design and equipment inefficiencies

- Stable, accurate control at ultra-low airflow means minimum set-points can be based on actual ventilation need—reducing over-ventilation and comfort complaints
- Wide dynamic range (100:1) allows airflow rates to adapt with the building, without steep performance penalties.
- Factory-validated airflow measurement (±3% above 200 FPM and ±6 FPM below 200 FPM) improves the quality of data used for commissioning, analytics, and energy modeling.

By enabling low-pressure, low-minimum-airflow designs without sacrificing peak airflow, and delivering a packaged, integrated solution, alignment with modern ASHRAE expectations becomes far easier to achieve.

Smarter ventilation. Streamlined Installs. Fewer Callbacks.

For over 40 years, Delta Controls has led building automation innovation, delivering future-ready solutions like the Delta Air Valve that redefine building performance through precision, efficiency, and sustainability.

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