

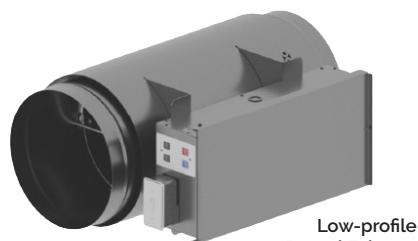
# Delta Air Valve (DAV)

An airflow solution that reduces expenditures, enhances occupant comfort, and delivers the flexibility to adapt as your building changes.

Built for building owners and facilities teams who need reliable comfort, flexible HVAC systems, and fewer service calls.

## DAV at a Glance

- 100:1 turndown, one size can support many zone airflow requirements (e.g., 25–2500 CFM)
- Accurate, stable control at ultra-low pressure (down to 0.03 in. w.c.)
- Factory-integrated on the RED5 platform, allowing your building to keep up with technology
- Standardized, ASHRAE Guideline 36 control sequences available out of the box
- Better data for energy reporting, ventilation compliance, and analytics



Low-profile  
Rectangular Supply



## The Challenge

Legacy terminals create ongoing operational pain

- Minimum set-points and duct pressures are often inflated to suit equipment limitations (not true minimum requirements), increasing fan energy and driving costly equipment oversizing
- Inaccurate low airflow measurement and inflated setpoints lead to over-ventilation, hot/cold complaints, and unstable zone control
- Inaccurate airflow data creates unreliable analytics and energy reporting, making it hard to validate energy performance or demonstrate ventilation compliance
- When tenant layouts change, airflow needs shift, forcing costly substitutions or performance penalties that drive repeated adjustments, compromises, and service calls

# The Solution

What DAV changes for building operations:

## ✓ Fewer complaints and callbacks

- True minimum ventilation reduces comfort complaints caused by chronic hunting, over-ventilation, and temperature swings
- Improved reheat efficiency (reduced air stratification) reduces hot and cold pockets, further reducing comfort complaints
- Acoustic issues are reduced by low pressure, low airflow design
- Paired with IAQ sensing, reduces complaints about spaces feeling "stuffy"

## ✓ Lower OPEX costs you can sustain

- Lower system pressure requirements significantly reduce fan energy consumption
- Reduced over-ventilation and heating/cooling swings lead to less energy waste
- Paired with IAQ and occupancy sensing, scale ventilation to real time need, ensuring you always supply just the right amount of air for occupant health and comfort.
- Standardization of hardware, control sequences, and results reduces time spent troubleshooting
- Improved reheat coil performance increases reheat efficiency and supports lower heating loop temperatures

## ✓ CAPEX and lifecycle cost impact

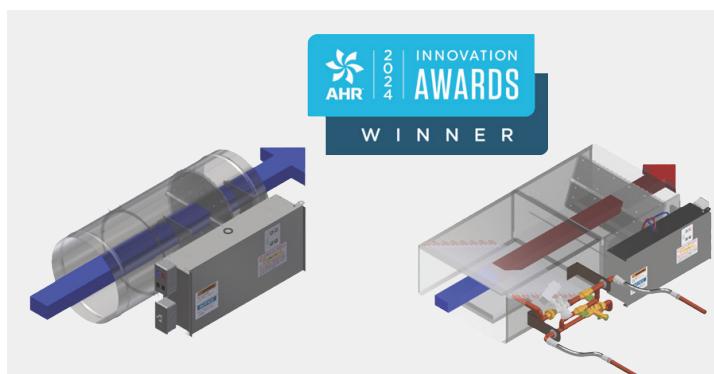
- Lower design static pressure can enable smaller fan selections and reduced electrical infrastructure
- Improved reheat effectiveness can support lower flow rates and loop temperature in hot-water designs, enabling smaller pump and plant sizing
- Simplified sizing and wide airflow range reduce the likelihood of needing costly terminal resizing during renovations and tenant improvements to maintain system performance

## ✓ Cleaner, more trustworthy data

- Higher-quality airflow data improves the accuracy of energy analytics and modeling, supporting more impactful optimization strategies
- More accurate energy reporting and ventilation data make it easier to demonstrate compliance with modern building standards

## ✓ Future-proof flexibility

- Simplified sizing and wide airflow range mean airflow can be easily adapted as spaces change, often via software/setpoints rather than mechanical replacement
- By enabling low-pressure, low-minimum-airflow designs without sacrificing peak airflow, compliance with modern building expectations becomes far easier to achieve
- Built on the RED5 platform to support BACnet/SC, IoT protocols, and advanced occupancy + IAQ sensing and more, so your building can move as fast as technology.
- Fully native BACnet solution; able to integrate with your existing and future infrastructure



**Smarter Ventilation.  
Reduced Expenditure.  
Adaptable Flexibility.**

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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