Webinar FAQ's
Introducing the Delta Air Valve (DAV)

Will other BAS manufacturers have access to this product with their controller?
Yes, this is not a sole source product. HVAC Manufacturing, the valve manufacturer, goes to market primarily through controls manufacturers.

What is the maximum pressure across the valve?
It is limited by the transducer. Currently, with our package built on RED5 and targeted at commercial applications, that would be two inches of water column. If we were to develop a package to go into critical environments like laboratory containment and fume hoods, we would build this using a transducer with a much higher range.

Are fast-acting valves included or planned?
Currently, this is built on the Red5 platform. Fast-acting solutions are not available right now, but they are something we are evaluating and will consider developing based on demand.

Will there be a future fume hood option?
This would be part of a future package targeted at critical environments. Fume hoods are a different business with different requirements. Delta would need to ensure we are well positioned to support this market before we enter.

How will the upstream reheat coil affect inlet air temperature, sensor placement, and readings?
Upstream placement eliminates stratification and loss of heating efficiency, caused by the damper deflecting the airstream. This results in more even heating and improved heat transfer. On the inlet side, IAT sensing will not be affected if the sensor is not located to close to the heater. The manufacturers recommendation is to install the sensor at least 2 full duct diameters upstream of the heater to avoid any impact to temperature readings.

Will there be a directional arrow on the casing to prevent backward installation with the hot water coil on the wrong side?
Yes, there will be a directional arrow on each unit.

Will this only be available on blade damper boxes, or will there be Venturi solutions as well?
This is a blade damper solution. It will not be a physical Venturi-style plunger box. That said, the performance in terms of turndown, accuracy and pressure requirements exceeds a Venturi valve. That said, the current iteration of Delta's implementation does not suit these applications due to limitations on the physical actuator speed.

Does Delta have a lab room controller that controls main supply and general exhaust for FHETs and snorkel exhaust?
No, not right now. That is under consideration, but lab containment and fume hood applications are a different business with additional risks and certification requirements. Short-term answer is no. Long-term answer is that it is being evaluated.

Will reheat coils be factory provided and installed by Delta or by the air valve partner?
Yes, they are assembled by HVAC Manufacturing, at their manufacturing facility in Texas. They install the reheat coil, do the wiring, and install the controller for shipping as a complete package. All hydronic units are pre-piped and ship pressurized, with a pressure gauge for a leak free assembly.

Will this be shown at AHR in Las Vegas?
No, it will not be shown this year. (2026)

How do we deal with discrepancies between TAB readings and what the DAV is reading? How is the DAV calibrated?
There will be two calibration variables specifically for balancing. One for the high end and one for the low end. The balancing procedure would involve balancing at high flow and low flow and entering calibration at both ends. There is a software switchover between the two. This procedure will be documented and published.

Will the AHU minimum motor speed be able to get as low as the DAV's minimum total flow?
That depends entirely on the system design. In the short term, it may be limited by existing system constraints. Long term, as consultants begin designing systems with smaller fans, ducts, and lower pressures, systems will be better able to support these lower minimums.

How are you going to market this product, given that controls contractors do not typically provide VAV boxes?
It will be a multi-pronged strategy. We will market to our partners as we normally do, but there is also a heavy push to market this toward design consultants. Other manufacturers in the industry, like Siemens, are also pushing this, which helps drive specification. Owner specification is another focus; talking to owners about the benefits for their buildings. The approach may differ by region, and it will involve discussions with partners to determine the right go-to-market strategy in each area.

Do you have a price range for this product?
Answer: Pricing has not been finalized for publication yet.

Where are the 600 calibration points stored, and how much RAM do they take up?
The 600 calibration points are stored within a DLM (Delta Loadable Module). The DLM contains a python script where the calibration points and airflow calculation are stored. This consumes a minimal amount of memory.

If a controller is replaced, are the 600 calibration points backed up and restored?
Yes. When you save the database, the DLM is saved with it. If it were lost, the same DLM is available on Passport and can be reloaded. Loading the DLM restores all the calibration data.

If a controller is replaced, are the calibration points no longer valid due to a different transducer?
No. The airflow equation is built for a specific DAV configuration with the Red5 controller and the transducer used in that assembly. If the controller is replaced, the same DLM can be used and the calibration remains valid.

For air balancing and commissioning, is calculating a K-factor no longer required and CFM verification only?
Yes. The intent is to move away from K-factor calculation and toward CFM verification only.

Is there a cut sheet available (CFM ranges and size ranges)?
Not yet. Right now, most of the documentation available is more on the marketing side. Delta is working on the technical documentation, including a spec guide with sizes, dimensions, airflow rates, and reheat coil rates. That will be available in the coming weeks leading up to release.

With regards to room sensors, are they antibacterial since they will be installed inside critical rooms?
That depends on the room sensor you choose. You will be able to connect your room sensor, and while the shipped databases are designed with a sensor, you can connect whatever sensor you want to it and adjust object mappings/programming as needed. This is just a Red5 controller, you can customize sensors.

Fan powered box (parallel and series) versions?
The manufacturer has it available, but it is not currently on the roadmap for Delta's initial release. Delta is starting with the initial release for regular reheat/cooling-only VAVs. Variations such as fan powered boxes and dual-duct boxes will follow.

Will the DLM be preserved when using the "Load Multiple Devices" function if using a program from our library?
Yes. The DLM is part of the database. If the DLM is included in your database and you then load it through controllers, whether it's one-to-one or one-to-many, it will be preserved.