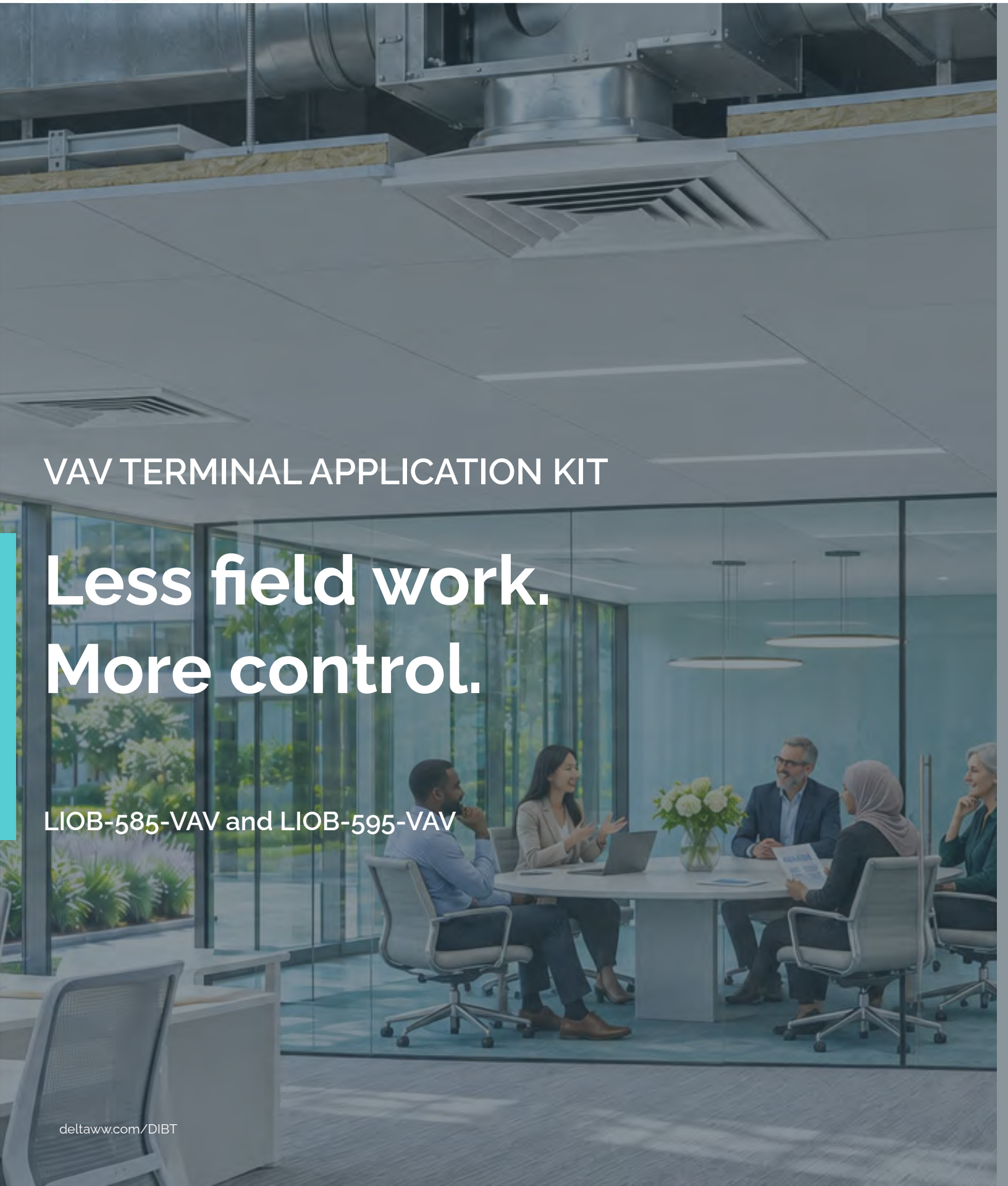
Delta Intelligent Building Technologies

LOYTEC
A Brand of Delta



VAV TERMINAL APPLICATION KIT

Less field work. More control.

LIOB-585-VAV and LIOB-595-VAV

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One controller. 01

More VAV boxes supported.

Competing solutions often require a dozen or more controller model variations. Configure one LOYTEC controller for most VAV box types. Proven in US installations, the application is available through Delta IBT Distribution Partners and continues to be offered to direct Delta partners.

Choose the I/O model. Configure it for the box.



LIOB-585-VAV

6 inputs with signal types fixed by the application, plus 2 analog outputs and 5 TRIAC outputs. Supports fan-speed control and reheat.



LIOB-595-VAV

5 application inputs, 1 analog output and 4 relay outputs. Match the application-assigned I/O and electrical load requirements to the project.

Fewer models to stock

Reduce box-specific model variations in your inventory.

One setup to learn

Use a familiar configuration and service workflow.

Flexibility on the job

Configure the controller for the terminal type and its functions.

Easier setup.
Less field work.

02

Start with a predefined application instead of developing each terminal sequence from scratch. Defaults and automatic I/O allocation help reduce commissioning labor, while software reassignment helps resolve compatible I/O errors without rewiring.



Defaults that save setup time

Set the box type and style, then adapt project settings. Automatic detection of L-STAT and MP-Bus devices helps reduce manual point assignment and keeps setup consistent across terminals.

I/O that adapts to the job

Assign the point to a different suitable I/O in the software, avoiding the need for physical rewiring. Confirm electrical compatibility before handover.

Balance independently. Reduce integrator involvement.

03

Give the TAB contractor independent access through a phone-format BalanceTool graphical project, helping reduce integrator involvement. Balancing is also available in the main configuration tool, or through an L-STAT when fitted and enabled.



Dedicated BalanceTool view.
Sized for phone use.



Main configuration tool - airflow calibration.

A dedicated view for the balancer, plus access through the main configuration graphics. Choose the interface that fits the workflow.

01

Direct balancer access

Let the TAB contractor calibrate airflow through a dedicated interface, helping reduce the need for the integrator to participate in each adjustment.

02

Support field tuning

Automatic PID tuning helps establish control. Damper sizing, airflow calibration and local trends support verification before the box goes into service.

03

Make handover clearer

Generated wiring, points information and sequence documentation give the service team a clearer record of the configured box. Confirm final operation and balance.

04

Connect your way. Integrate with confidence.



Security built into the connection: BACnet/SC adds encrypted, authenticated communication.

Flexible network connections

Choose BACnet/IP or BACnet/SC to suit the building network. Routing between IP and SC supports flexible network design and integration with existing systems.

BACnet into the BAS

Exposed BACnet objects support eWEB and compatible building-management platforms. Consistent BACnet IDs simplify point mapping, replacement and ongoing maintenance.

OPC into LWEB-900

OPC XML-DA and OPC UA connect the application to LWEB-900. Existing templates, graphics and support files help create a consistent supervisory experience.

Local control. System coordination.

The terminal sequence continues when the supervisory network is offline. The VAV application is also designed to coordinate zone requests with the LOYTEC AHU application.

AHU and Unitary releases are planned. LWEB-900 software access is separate and is not initially supplied through Distribution.

Airflow flexibility for demanding spaces.

05

Match airflow, reheat, fan and occupancy functions to different spaces across a building or portfolio. The examples below show opportunities where the mechanical design uses suitable VAV or VVT terminals.





Commercial offices

Support meeting rooms, private offices and shared work areas with configured airflow, local reheat and occupied/standby setpoints. Consistent interfaces help teams manage changing room use.

Education and campuses

Classroom and lecture-space applications can use the selected ventilation basis, room CO2 input and occupancy behavior to match changing demand. Fan and reheat options adapt the terminal to the zone.

Healthcare and clinical spaces

Patient rooms, clinical support areas and administrative zones can have different temperature, humidity and airflow needs. Configure the supported functions and validate the required sequence for each space.

Hospitality and shared spaces

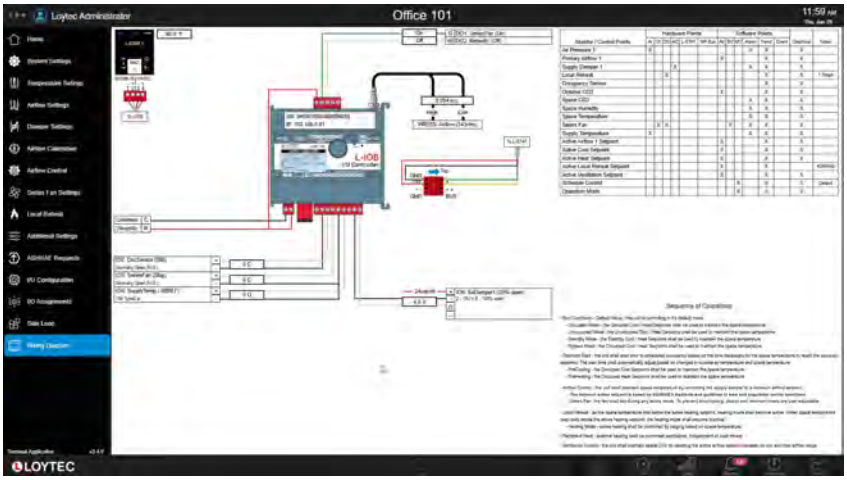
In hotels, conference facilities and common areas served by VAV systems, schedules and local room interaction support changing occupancy. L-STAT panels can provide setpoint adjustment and room-level access.

For more demanding supply/exhaust applications, the Tracking Pair option coordinates the two airflow loops using a selected relationship and offset. Suitable sensors, available I/O, engineered sequences and acceptance testing remain essential.

Simpler service. Standards-based control.

06

After handover, local graphics, schedules, alarms and trends help operators understand terminal performance and investigate issues. Keep useful operating information at the equipment, with standards-based sequences supporting the project requirements.



Tools for the service team

Use alarms to identify issues, event logs to trace changes and local trends to investigate performance. Operators can review terminal behavior as building needs change.

An optional Side Loop adds a separate control function, with its own schedule or setpoint, within the available I/O.

Standards-based sequences

Support project specifications with functions mapped in the engineering guide to ASHRAE Guideline 36, ASHRAE 55, 62.1 and 90.1, and California Title 24 Part 6. These address terminal sequencing, ventilation, comfort settings, setbacks and reset requests to the air handler.

Select the ventilation basis and configure the project requirements before testing. Code compliance depends on the specified edition, complete system design and verified operation. Calculated energy estimates can support review; they do not replace metered savings verification.



Make the VAV Terminal Application Kit part of your next project.



Bring proven terminal control, flexible I/O and independent balancing to your next VAV project. Ask your Distribution Partner or Delta partner about the controller, a natively supported L-STAT room panel and compatible peripherals.

CONNECTION

BACnet/IP + BACnet/SC

Match the building network and integration needs.

FIELD WORK

Configure and balance

Defaults, flexible I/O and direct TAB access.

MODEL CHOICE

LIOB-585-VAV / LIOB-595-VAV

Match outputs, loads and sensing requirements.

Start the conversation.

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Illustrative project-planning scene. Confirm kit contents and application requirements with your distributor.