Distech Controls VAV Comparison

Hardware Comparison for Distech Controls VAV Controllers

Distech Controls VAV controller models have very different options that are required for different applications. This comparison chart is intended to aid in determining which VAV model is most suited to your application.

| Model | | ECB-VAV-N and ECL-VAV-N | ECL-VAVS and ECB-VAVS | ECL-VAV and ECB-VAV | ECL-VAV Plenum-rated and ECB-VAV Plenum-rated | ECB-VAV-UUKL | ECY-VAV | ECY-VAV Plenum-rated | ECY-VAV-PoE |
|-----------------------------|---|-------------------------------|-----------------------------|---------------------------|---|--------------|------------------------|-------------------------|------------------------|
| Category | Feature | 221122 | | | | | | | |
| Recommended Applications | Cooling Only VAV Box | | | | | | | | |
| | Cooling with Reheat VAV Box | | | | | | | | |
| | Parallel Fan VAV Box | | | | | | | | |
| | Series Fan VAV Box | | | | | | | | |
| | Dual-Duct VAV Systems | | | | | | | | |
| | Large Damper > 45 in-lb (5 Nm) VAV Box | | | | | | | | |
| | Existing Damper Actuator | | | | | | | | |
| General Features | Integrated Actuator | | 45 in-lb | 45 in-lb | 45 in-lb | 45 in-lb | 45 in-lb | 45 in-lb | 45 in-lb |
| | Drift-free, polarity-sensitive flow sensor | | | | | | | | |
| | Drift-free, polarity-free, NoZero calibration flow sensor | | | | | | | | |
| | Smart Room control | | | | | | | | |
| | Webserver | | | | | | HTML5 REST API | HTML5 REST API | HTML5 REST API |
| Inputs | Universal Inputs (Software Configurable) | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Allure™ Series Communicating Sensor device limit | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <u>ਵ</u> | Wireless Inputs (EnOcean) | 18 | 18 | 18 | 18 | 18 | Unlimited ¹ | Unlimited ¹ | Unlimited ¹ |
| | Analog/Digital Converter (Precision) | 16-bits | 12-bits | 16-bits | 16-bits | 16-bits | 16-bits | 16-bits | 16-bits |
| Outputs | Universal Outputs (Analog) | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Digital Outputs (Triac) | 44 | 3 ³ | 44 | 44 | 44 | 44 | 44 | 44 |
| | Analog/Digital Converter (Precision) | 10-bits | 10-bits | 10-bits | 10-bits | 10-bits | 10-bits | 10-bits | 10-bits |
| | 24 VAC/DC | | | | | 24 VAC | | | |
| | Power over Ethernet (PoE) | | | | | | | | |
| | Daisy-Chaining ² | | | | | | | | |



| Model | | | ECB-VAV-N and ECL-VAV-N | ECL-VAVS and ECB-VAVS | ECL-VAV and ECB-VAV | ECL-VAV Plenum-rated and ECB-VAV Plenum-rated | ECB-VAV-UUKL | ECY-VAV | ECY-VAV Plenum-rated | ECY-VAV-PoE |
|-----------------------------------|---|---------------------------------------|-------------------------------|-----------------------------|---------------------------|---|------------------|------------------|-------------------------|------------------|
| Communication | BACnet MS/TP | | | | | - | • | | | |
| | LonWorks TP/FT-10 | | | | | | | | | |
| | BACnet IP | | | | | | | | | |
| | WiFi (Client, Hotspot, Access Point, Bridge) | | | | | | | | | |
| ng and ation | Programmable | | | | | | | | | |
| | Preloaded applications (including VPACC auto-diagnostics) | | | | | | | | | |
| | Air Balancing | myDC AirBalancing | | | | | | | | |
| nmi | | EC-Smart-Vue | | | | | | | | |
| Programming and Configuration | | EC-gfxProgram Configuration Assistant | | | | | | | | |
| | | EC-Net | | | | | | | | |
| | | ENVYSION Viewer | | | | | | | | |
| Premade Graphics | Premade EC-Net Granhics | Px Graphics | | | | | | | | |
| | | Compatible with ENVYSION for EC-Net | | | | | | | | |
| | Embedded ENVYSION Graphics | | | | | | | | | |
| and tal | Dimensions (W × H × D) (mm) | | 123×149×54 | 200×140×94 | | | | | | 201×208×94 |
| Mechanical and I Environmental | Weight (Kg) | | 0.42 | | | 0 | .89 | | | 1.14 |
| | Environmental Rating | | | IP20 (NEMA 1) | IP20 (NEMA 1) | IP20 (NEMA 1) | IP20 (NEMA 1) | IP20 (NEMA 1) | IP20 (NEMA 1) | IP20 (NEMA 1) |
| Me En | Sound Level (<35 dBA) | | | | | | | | | |
| Standards and Regulations | BACnet BTL listed | B-ASC | | | | | | | | |
| | | B-BC | | | | | | | | |
| | Lonmark SCC VAV Certifi | ed | | | | | | | | |
| | UL 864 UUKL Smoke Control, 10 th Edition | | | | | | | | | |
| | UL 2043 Plenum-rated | | | | | | | | | |

^{1.} Wireless inputs will only be limited by physical distance between the EnOcean devices and the ECLYPSE Open-to-Wireless Adapter.

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^{2.} Refer to the controller's Installation Guide for details on individual daisy-chaining performance.

^{3.} Internally powered only.

^{4.} Internally or externally powered.