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.

Category	Feature		ECL-VAVS and ECB-VAVS	ECL-VAV and ECB-VAV	ECY-VAV	ECB-VAV-UUKL	ECB-VAV-N and ECL-VAV-N
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	
	Drift-free, polarity-sensitive flow sensor						■
	Drift-free, polarity-free, NoZero calibration flow sensor		■	■	■	■	
	Smart Room control			■	■	■	■
	Webserver				HTML5 REST API		
Inputs	Universal Inputs (Software Configurable)		3	4	4	4	4
	Allure™ Series Communicating Sensor device limit		4	4	4	4	4
	Wireless Inputs (EnOcean)		18	18		18	18
	Analog/Digital Converter (Precision)		12-bits	16-bits	16-bits	16-bits	16-bits
Outputs	Universal Outputs (Analog)		1	2	2	2	2
	Digital Outputs (Triac)		3^2	4^3	4^3	4^3	4^3
	Analog/Digital Converter (Precision)		10-bits	10-bits	10-bits	10-bits	10-bits
Power	24 VAC/DC		■	■	■	24 VAC only	■
	Power over Ethernet (PoE)				Optional		
	Daisy-Chaining[1]		■	■	■	■	■
Communication	BACnet MS/TP		■	■			■
	LᴏɴWᴏʀᴋs TP/FT-10		■	■			■
	BACnet IP				■		
	WiFi (Client, Hotspot, Access Point, Bridge)				■		
Programming and Configuration	Programmable		■	■	■	■	■
	Preloaded applications (including VPACC auto-diagnostics)		■	■	■	■	■
	Air Balancing	myDC AirBalancing	■	■	■	■	
		EC-Smart-Vue	■	■	■	■	
		EC-*gfx*Program Configuration Assistant	■	■	■	■	
		EC-Net	■	■	■	■	■
		ENVYSION Viewer			■		
Premade Graphics	Premade EC-Net Graphics	Px Graphics	■	■	■	■	■
		Compatible with ENVYSION for EC-Net	■	■	■	■	■
	Embedded ENVYSION Graphics				■		
Mechanical and Environmental	Dimensions (W x H x D) (mm)		200x140x94				123x149x54
	Weight (Kg)		0.89				0.42
	Environmental Rating		IP20 (NEMA 1)	IP20 (NEMA 1)	IP20 (NEMA 1)	IP20 (NEMA 1)	
	Sound Level (<35 dBA)		■	■	■	■	■

Model			ECL-VAVS and ECB-VAVS	ECL-VAV and ECB-VAV	ECY-VAV	ECB-VAV-UUKL	ECB-VAV-N and ECL-VAV-N
Standards and Regulations	BACnet BTL listed	B-ASC	■	■		■	■
		B-BC			■		
	Lonmark SCC VAV Certified		■	■			■
	UL 864 UUKL Smoke Control, 10th Edition					■	

1. Refer to the controller's Installation Guide for details on individual daisy-chaining performance.
2. Internally powered only.
3. Internally or externally powered.

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