









# 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								
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
	Wireless Inputs (EnOcean)	18	18	18	18	18	Unlimited <sup>1</sup>	Unlimited <sup>1</sup>	Unlimited <sup>1</sup>
	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)	4 <sup>4</sup>	3 <sup>3</sup>	4 <sup>4</sup>	4 <sup>4</sup>	4 <sup>4</sup>	4 <sup>4</sup>	4 <sup>4</sup>	4 <sup>4</sup>
	Analog/Digital Converter (Precision)	10-bits	10-bits	10-bits	10-bits	10-bits	10-bits	10-bits	10-bits
Power	24 VAC/DC	■	■	■	■	24 VAC	■	■	■
	Power over Ethernet (PoE)								■
	Daisy-Chaining <sup>2</sup>	■	■	■	■	■	■	■	■

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)							■	■	■
Programming and Configuration	Programmable		■	■	■	■	■	■	■	■
	Preloaded applications (including VPACC auto-diagnostics)		■	■	■	■	■	■	■	■
	Air Balancing	myDC AirBalancing		■	■	■	■	■	■	■
		EC-Smart-Vue		■	■	■	■	■	■	■
		EC- <i>gfx</i> 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 × H × D) (mm)		123×149×54	200×140×94						201×208×94
	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)
	Sound Level (<35 dBA)		■	■	■	■	■	■	■	■
	Standards and Regulations	BACnet BTL listed	B-ASC	■	■	■	■	■		
B-BC								■	■	■
Lonmark SCC VAV Certified		■	■	■	■					
UL 864 UUKL Smoke Control, 10 <sup>th</sup> 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.  
2. Refer to the controller's Installation Guide for details on individual daisy-chaining performance.  
3. Internally powered only.  
4. Internally or externally powered.