

## Qualifying Advanced Rooftop Unit Controls - Updated May 2019

The requirements of eligible Advanced Rooftop Unit Control solutions are:

- Multispeed or variable speed control of the supply fan
- Modulating outdoor air damper control to maintain proper ventilation rates according to ASHRAE Standard 62.1 under different fan speeds
- Demand control ventilation (DCV) to modulate outdoor air supplied to the building
- Integrated economizer functionality (stages on and off as needed)

The following packaged retrofit solutions have been reviewed and determined to meet these requirements:

Manufacturer	Brand Name	Website	Notes
Belimo	ECON-ZIP-EM	<a href="http://www.belimo.us/americas/economizer.html">www.belimo.us/americas/economizer.html</a>	
Bes-Tech	Digi RTU	<a href="http://www.bes-tech.net/digi-rtu/">www.bes-tech.net/digi-rtu/</a>	
Bryant	580J	<a href="http://www.bryant.com/bryant/en/us/products/light-commercial">www.bryant.com/bryant/en/us/products/light-commercial</a>	When model number digits include "Outdoor Air Options" = "U" (digit 14) and "Packaging and 2-Speed Indoor Fan Motor" = "D" (digit 17)
	581J		
Carrier	48TC Rooftop Units	<a href="http://www.carrier.com/commercial/en/us/products/packaged-outdoor/outdoor-packaged-units/">www.carrier.com/commercial/en/us/products/packaged-outdoor/outdoor-packaged-units/</a>	"Base Unit Controls" digit of model number = 6
	48HC Rooftop Units		"Base Unit Controls" digit of model number = 6
	48LC Rooftop Units		Provided unit mounted or wall mounted CO2 sensors are also installed.
Enerfit	Enerfit V1	<a href="http://www.enerfit.com">www.enerfit.com</a>	
Honeywell	Jade Economizer	<a href="http://buildingcontrols.honeywell.com/products/Jade-Economizer">buildingcontrols.honeywell.com/products/Jade-Economizer</a>	Also requires installation of VFD on supply fan
	LCBS	<a href="https://buildingcontrols.honeywell.com/Building-Automation-Systems/LCBS-Connect">https://buildingcontrols.honeywell.com/Building-Automation-Systems/LCBS-Connect</a>	Requires LCS controller, economizer actuator, outside air temperature and humidity sensors, mixed air temperature sensor, VFD, and CO <sub>2</sub> sensor(s).
Johnson Controls	Simplicity SE	<a href="http://www.upgnet.com/PdfFileRedirect/5127913-UTG-A-0515.PDF">http://www.upgnet.com/PdfFileRedirect/5127913-UTG-A-0515.PDF</a>	When paired with economizer and VFD options on new rooftop units. Requires separate DCV / CO <sub>2</sub> sensors.
NexRev	DrivePak ARC	<a href="http://www.nexrev.com/products/drivepak-arc/">www.nexrev.com/products/drivepak-arc/</a>	
Pelican Wireless Systems	PEARL Economizer	<a href="http://www.pelicanwireless.com/products/">www.pelicanwireless.com/products/</a>	Requires Pelican TS200, TS200H, TS250, or TS250H thermostat, PEARL Economizer, Pelican Extended Range Wireless Gateway, and VFD.
Trane	SZVAV Retrofit	<a href="http://www.trane.com/commercial/">www.trane.com/commercial/</a>	Retrofit of Trane RTUs with an existing Trane building management system. Requires CO <sub>2</sub> sensors and VFD.
Transformative Wave	Catalyst	<a href="http://transformativewave.com/catalyst">transformativewave.com/catalyst</a>	



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