



Authorized Dealer



CONTROL CONCEPTS OHIO

Market segment
Warehouse

Location
Lockbourne, Ohio, United States

Total area
81,755 m² (880,000 ft²)

Project type
Retrofit

Protocol
BACnet

Installation type
HVAC

Zulily warehouse

Project Profile

Zulily is an American online retailer that sells clothes, beauty products, and home decor goods. Its fulfillment center in Lockbourne, Ohio, is an 880,000-square-foot warehouse that ships vendor-owned merchandise to customers. Founded in 2010, Zulily made a splash with products catered to families with young children and staged a successful initial public offering on the Nasdaq in 2013.



Authorized Dealer [Control Concepts Ohio](#) installed a Reliable Controls building automation during a retrofit of Zulily's Lockbourne warehouse that began in 2022.

Total system objects
3,250

Installed equipment



46 MACH-ProZone™
controllers



50 SMART-Sensor™
devices

Installed software



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The backbone of the building automation system is RC-Studio, an easy to learn and use BACnet Advanced Operator Workstation (B-AWS) software program that helped Control Concepts Ohio improve energy use and operational efficiency in the facility while integrating Reliable Controls controllers and equipment from other brands. Before the installation, building managers had issues with communications and operating performance. The Reliable Controls system provides a stable network that promotes occupant comfort and controls 50 rooftop units according to zone sequencing.

The biggest challenge of the retrofit was discovering equipment in need of repair, which sometimes required several hours of troubleshooting after installation of the Reliable Controls system.

Forty-six fully programmable MACH-ProZone controllers, ideal for controlling midsize rooftop and heat-pump applications and small mechanical room equipment, provide highly scalable inputs and outputs in a compact package. In addition, each zone now has a SMART-Sensor device that delivers occupancy status, which provides an excellent means to improve energy and operational efficiency.

Installing variable frequency drives on the rooftop units meant the fans could soft start and operate at a lower speed during periods of low demand. Control Concepts Ohio integrated power meters and ceiling fans into the building automation system for demand-limited control and to decrease peaks in energy use, saving thousands of dollars every month.

