

Authorized Dealer



CONTROL CONCEPTS OHIO

Market segment
Hospitality

Location
Beachwood, Ohio, United States

Total area
66,704 m² (718,000 ft²)

Project type
Retrofit

Protocol
BACnet

Installation type
HVAC , lighting

Residence Inn Cleveland Beachwood

Project Profile

Built in 1997, the [Residence Inn Cleveland Beachwood](#) offers 198 studio, one-bedroom, and two-bedroom suites over four floors. Every suite has a fully equipped kitchen with a full-size refrigerator, stovetop, microwave, dishwasher, and coffee maker as well as a large bathroom.

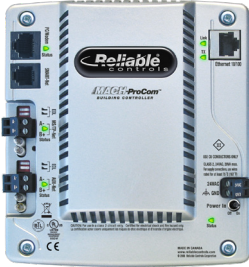


Authorized Dealer [Control Concepts Ohio](#) installed a Reliable Controls building automation system during a retrofit of the HVAC equipment at the Residence Inn Cleveland Beachwood.

Total system objects
12,730

Integrated equipment
Napoleon vertical terminal air conditioners

Installed equipment



1 MACH-ProCom™
controller



4 MACH-ProZone™
controllers



205 RC-FLEXair™
controllers



205 SMART-Sensor™
devices

Control Concepts Ohio used RC-Studio, an easy-to-use BACnet Advanced Operator Workstation software program, to deploy and commission hundreds of Reliable Controls devices and to integrate third-party vertical terminal air conditioning units. With RC-Toolkit software, Control Concepts Ohio seamlessly optimized network communications and integrated open protocols in the building.

Today facility managers can efficiently manage the control system over the internet using RC-WebView software, an easy-to-use browser-based solution that combines the power of enterprise tools with a simple interface. RC-RemoteAccess provides data communications security for remote system access without the need for additional routers or controllers.

Control Concepts Ohio installed 415 Reliable Controls hardware devices in this project:

- A MACH-ProCom controller controls large mechanical equipment. The MACH-ProCom has extensive networking routing ability to multiple open protocols and highly scalable inputs and outputs—key for an installation with equipment from third-party vendors.
- The vertical terminal air conditioning unit in each guest room is controlled over BACnet/IP by an RC-FLEXair controller, each with a generous database, triple-core processor, and multiple high-speed communication options.
- Four MACH-ProZone devices control small to midsize rooftop and heat-pump units.
- More than 200 SMART-Sensor devices throughout the hotel deliver a modern communicating-sensor solution that allows occupants to connect with up to 10 configurable parameters related to space, including temperature.

Installed software



Control Concepts Ohio programmed setback schedules and occupancy monitoring to improve indoor air quality and occupant comfort for hotel staff and guests. Supply-chain issues and long lead times from third-party manufacturers were a challenge of this project, but the new building automation system provides building managers with better control, energy efficiency, and system navigation.



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