

# KYKUIT

ROCKEFELLER HOME

MUSEUM

## OLD SCHOOL RENO

Kykuit is a 4-story Beaux Arts Villa built in 1913 by philanthropist and founder of Standard Oil, John D. Rockefeller (Senior). Meaning "lookout" in Dutch, Kykuit served as the family residence for four generations and is currently owned by the National Trust for Historic Preservation and administered by the Rockefeller Brothers Fund. Situated in the Pocantico Hills overlooking the Manhattan skyline, the facility houses a conference center, guest rooms, and museums.

## PROJECT DETAILS

The Reliable Controls® MACH-System installed at Kykuit controls equipment in the two main buildings, Kykuit and the Coach Barn Conference Center. The equipment controlled includes: 2 chillers; 2 heat exchangers; 3 AHUs; 3 boilers; 7 pumps; 9 guest room FCUs; Museum Gallery FCUs; and various ventilation and exhaust fans. Pneumatic and electric controls were replaced while pneumatic valves continue to use transducers.

With a variety of sensitive environments to monitor, the installation uses MACH-Stat™ controllers to measure the domestic hot water consumption as well as the temperature and humidity on the museum floors.

Of prime importance to the client was the need to preserve the integrity of existing structures by limiting intrusive wiring techniques. As a result, wireless sensors were employed to deliver the data required to optimize the installation.

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### PROJECT TYPE:

**Retrofit**

### INSTALLATION TYPE:

**Mechanical, HVAC**

### TOTAL AREA:

**Kykuit: 3,700 m<sup>2</sup> (40,000 ft<sup>2</sup>)**

**Coach Barn: 3,700 m<sup>2</sup> (40,000 ft<sup>2</sup>)**

**Total: 7,400 m<sup>2</sup> (80,000 ft<sup>2</sup>)**

### EQUIPMENT INSTALLED:

**2 MACH-Stat™**

**5 MACH-ProCom™**

**10 MACH1™**

**14 MACH-Zone™**

**14 SMART-Sensor™**

### NETWORK:

**Ethernet**

### INTEGRATION:

**BACnet®**

### TOTAL SYSTEM POINTS:

**224 points**

### RELIABLE CONTROLS® DEALER:

**PE Control Services**

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