

# HEKETI CHARTER SCHOOL

BRONX, NY, USA

EDUCATION

## EFFICIENT INTEGRATION

*Heketi Charter School is a community-rooted, elementary school with the ultimate goal of improving conditions and the image of the South Bronx.*

## PROJECT DETAILS

Certus Controls, a Reliable Controls® Authorized Dealer, successfully completed this project to implement a comprehensive, fully integrated control system into Heketi Charter school.

The primary Ethernet network connects the three central RTUs and heating plant. All primary mechanical equipment uses the powerful MACH-ProSys controllers. The secondary network serving the MACH-ProAir VAV controllers and MACH-ProZone controllers is on a BACnet® MS/TP network.

The HVAC system consists of a condensing boiler with hot water distribution and three large-scale RTUs, which provide variable volume heating and cooling. Each zone is controlled with VAV terminal units and perimeter radiation. Spot cooling for TELCOM, IT, and specialty areas is accomplished with dedicated split system AC units.

Challenges included the fact that all RTU DDC controllers were factory mounted and wired; however, Certus worked diligently so that a comprehensive, fully integrated control system was implemented. The result is a state-of-the-art building automation system, which provides the foundation for an energy efficient, healthy building environment for this leading charter school.

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### PROJECT TYPE:

**New Construction & Retrofit**

### INSTALLATION TYPE:

**Boiler, CO2 Monitoring, Power Monitoring, VAV, Water Monitoring, Energy Recovery Unit**

### TOTAL AREA:

**9,290 m<sup>2</sup> (100,000 ft<sup>2</sup>)**

### EQUIPMENT INSTALLED:

**50 MACH-ProAir™  
10 MACH-ProZone™  
4 MACH-ProSys™  
4 MACH-ProPoint™  
1 MACH-ProWebSys™**

### NETWORK:

**EIA-485, Ethernet**

### INTEGRATION:

**BACnet®, Modbus**

### TOTAL SYSTEM POINTS:

**750 points**

**RELIABLE CONTROLS® DEALER:**  
**Certus Controls LLC**

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