

BRIGHAM & WOMEN'S HOSPITAL

BOSTON, MA, USA

HEALTH CARE

ENERGY CONSERVATION

Brigham and Women's Hospital (BWH) is an international leader in virtually every area of medicine, pioneering breakthroughs that have improved lives around the world. With multiple hospitals, the 41 Ave Louis Pasteur (41 ALP) building was formerly lab space, converted to a multi-use office facility located in the heart of Boston's Longwood Medical district.

PROJECT DETAILS

Reliable Controls® Authorized Dealer, Control Technologies, Inc., participated in an energy conservation program to update Brigham & Women's Hospital's 41 ALP building. The project featured a 51,000 GSF former lab building repurposed as office space with legacy 100% OA HVAC design. The decision to upgrade the building resulted from short-term renovation decisions based on the short life expectancy of the building, coupled with the building running 24/7 despite only Monday-Friday use.

The project consisted of 115 space-controlled zones, with mechanical equipment consisting of two types of VAVs, fin tube radiation, three types of fan coils, two types of package terminal air conditioners, reheat coils, and cabinet unit heaters. Some zones were fitted with occupancy sensors and/or CO2 sensors. A zone was any combination of the above equipment. The multiple I/O configurations of the MACH-ProZone allowed for a customized layout of all zones.

The energy savings include 472,020 kWh annual projected (36%), 43,262 therms annual projected gas (62%), and \$101,478 energy cost savings, with a projected payback of 1.3 years. This project was part of an energy conservation program incentivized by NSTAR, and the project team was awarded an Outstanding Energy Project award from the Association of Energy Engineers.

To learn more about projects using Reliable Controls®, visit www.reliablecontrols.com/projects/overview.



PROJECT TYPE:
Pneumatic Retrofit

INSTALLATION TYPE:
Boiler, Chiller, CO2 Monitoring, Fan Coil, Unit Heaters, Cabinet Unit Heater, Reheat Coils, Unit Ventilators, Fin tube Radiation

EQUIPMENT INSTALLED:
80 MACH-Pro Zone™
89 SMART-Sensor™ LCD
21 MACH-Pro Air™
4 SMART-Space™ Controller
1 MACH-ProSys™
3 MACH-ProPoint™ IO

NETWORK:
EIA-485

INTEGRATION:
BACnet

TOTAL SYSTEM POINTS:
800 points

RELIABLE CONTROLS® DEALER:
Control Technologies, Inc.

www.reliablecontrols.com