Reliable®
controls

BROADWAY TOWER

PORTLAND, OREGON, UNITED STATES

INTRODUCTION

Broadway Tower is a 19-storey, 430,000 square foot, mixed use high-rise building in the heart of Portland, Oregon. The building is within walking distance of the city's best restaurants, shops, museums, parks, and art galleries. The ground floor combines retail space, and world-class restaurant and bar facilities. A Radisson RED Hotel occupies the second through eighth floors and includes 186 hotel rooms. The ninth through nineteenth floors house office space.

PROJECT DETAILS

Authorized Dealer Sunbelt Controls installed a Reliable Controls building automation system during construction of Broadway Tower.

One the office-occupied floors, self-contained vertical units with water-side economizers use a condenser water loop controlled by wet-bulb outside-air temperature to maximize efficiency. Fan-powered and variable-air-volume boxes with reheat complete the mechanical equipment for the office floors. The ground floor and hotel mechanical system includes fan-coil units with electric reheat and hydronic cooling. The hydronic system uses boilers, an air-cooled chiller, heat exchangers, pumps, and cooling towers. Sunbelt Controls integrated a chiller, dedicated outdoor-air system, rooftop unit, variable frequency drives, hydronic flow meters, and garage exhaust with the Reliable Controls system.

Broadway Tower achieved LEED Gold Core and Shell certification in 2018.

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MARKET SEGMENT:
Corporate

PROJECT TYPE:
New construction

INSTALLATION TYPE:
HVAC

TOTAL AREA:
39,948.3 m² (430,000 ft²)

NETWORK:
EIA-485, Ethernet

PROTOCOL:
BACnet

EQUIPMENT INSTALLED:
237 MACH-ProAir™ controllers
12 MACH-ProCom™ controllers
4 MACH-ProSys™ controllers with smoke control
1 MACH-ProWebCom™ controller
72 MACH-ProZone™ controllers

TOTAL SYSTEM OBJECTS:
2,970

CERTIFICATIONS:
LEED Gold

RELIABLE CONTROLS DEALER:

SUNBELT CONTROLS

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LEED GOLD
LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN

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