

ESPACE 400E

QUEBEC CITY, QUEBEC, CANADA

INTRODUCTION

Originally a cement factory, Espace 400e opened in summer 2008 as the central location for Quebec's 400th-anniversary celebrations in the city's Vieux-Québec—Old Port district. Today the building is used by Festival d'été international de Quebec as a temporary exhibition center.

PROJECT DETAILS

Authorized Dealer [Contrôles AC](#) installed a Reliable Controls building automation system in the Espace 400e facility during a retrofit/new construction project.

The cement factory was converted to an event space in 1984. A recent renovation project included a sustainability upgrade, with passive heating and cooling using cross ventilation and large rooftop overhangs, energy-efficient water tanks for radiant floor heating, and double glass.

Contrôles AC installed one MACH-Global controller to control the two main rooftop air-handling units and another for geothermal heat pump equipment. MACH-Zone controllers were implemented to control lighting, fan coils, and radiant floor heating and were interfaced with the geothermal and radiant floor heating systems. Contrôles AC also installed a MACH1, a rugged, flexible, fully programmable BACnet Building Controllers ideal for midsize rooftop equipment and small mechanical room applications.

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MARKET SEGMENT

Recreational

PROJECT TYPE

Retrofit and new construction

INSTALLATION TYPE

HVAC, lighting

TOTAL AREA

5,700 m² (61,333 ft²)

PROTOCOL

BACnet

INSTALLED EQUIPMENT

1 MACH1™ controller

2 MACH-Global™ controllers

7 MACH-Global Input expansion cards

4 MACH-Global Output expansion cards

27 MACH-Zone™ controllers

TOTAL SYSTEM OBJECTS

300

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