

# 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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# Reliable<sup>®</sup> controls



### MARKET SEGMENT

**Recreational**

### PROJECT TYPE

**Retrofit and new construction**

### INSTALLATION TYPE

**HVAC, lighting**

### TOTAL AREA

**5,700 m<sup>2</sup> (61,333 ft<sup>2</sup>)**

### 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**

### RELIABLE CONTROLS AUTHORIZED DEALER

 **CONTRÔLES AC**  
UNE SOCIÉTÉ DE EQUANS

ASHRAE **BACnet**