

# ROYAL CANADIAN AIR FORCE AIR MOBILITY TRAINING CENTRE AT 8 WING/CFB TRENTON

TRENTON, ONTARIO, CANADA

## INTRODUCTION

*8 Wing at Canadian Forces Base (CFB) Trenton is the hub of Royal Canadian Air Force air mobility operations in Canada. With fleets of tactical and strategic transport aircraft, 8 Wing/CFB Trenton delivers supplies to the high Arctic; airlifts troops, equipment, and humanitarian loads worldwide; and is home to the Joint Rescue Coordination Centre. Members of 8 Wing are involved in virtually every Canadian Armed Forces operation. The Air Mobility Training Centre at 8 Wing was built to house the equipment and personnel used to train pilots and maintenance crews for the CC-130J Hercules aircraft.*

## PROJECT DETAILS

Authorized Dealer [R.E.L. Controls](http://reliablecontrols.com) installed a Reliable Controls building automation system during construction of the Air Mobility Training Centre.

The size of two football fields, this LEED Silver-certified facility includes two- and three-story educational and office spaces designed to accommodate high-tech aircrew and technician simulation, making it one of the most advanced flight-training facilities in the world.

Installed mechanical equipment includes chillers, boilers, lights, power monitors, fire alarms, an emergency generator, a domestic hot water system, chemical control, and variable frequency drives. The project required compliance with military standards and integration of third-party equipment.

The complex training equipment housed in the Air Mobility Training Centre meant the tolerances for the concrete floors were lower than normal. With the Reliable Controls building automation system, facility managers benefit from remote access integration to a wide area network that spans multiple buildings as well as creative programming for energy-saving modes. R.E.L. Controls was awarded the BACnet International Annual Award for BACnet Project of the Year in 2017 for its work on the 8 Wing/CFB Trenton Air Mobility Training Centre.

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### MARKET SEGMENT

**Government**

### PROJECT TYPE

**New construction**

### INSTALLATION TYPE

**HVAC**

### TOTAL AREA

**17,000 m<sup>2</sup> (183,000 ft<sup>2</sup>)**

### PROTOCOL

**BACnet**

### INSTALLED EQUIPMENT

**303 MACH-Air™ controllers**  
**2 MACH-ProAir™ controllers**  
**4 MACH-ProCom™ controllers**  
**21 MACH-ProSys™ controllers**  
**47 MACH-Zone™ controllers**  
**241 SMART-Sensor™ LCD devices**  
**51 SMART-Space™ Controller devices**

### TOTAL SYSTEM OBJECTS

**10,579**

### CERTIFICATIONS

**LEED Silver**

### RELIABLE CONTROLS AUTHORIZED DEALER

**REL**  
CONTROLS

