

CHATHAM-KENT CHILDREN'S SERVICES

CHATHAM, ON, CANADA

GOVERNMENT

THE KIDS ARE ALRIGHT

Chatham-Kent Children's Services (CKCS) is an Ontario provincial government organization committed to the emotional, mental, and physical health of children. The services offered by CKCS include child safety and well being, foster care, and protection programs.

PROJECT DETAILS

Reliable Controls® Authorized Dealer, Postma Heating and Cooling, completed work on the Chatham-Kent Children's Services administration building. The project's primary focus was to retrofit Variable Frequency Drives (VFDs) with existing Roof Top Units (RTUs). Postma installed 16 MACH-ProZone™ (MPZ) controllers, one for each of the existing RTUs, to control the VFDs. Thanks to the flexibility of the MPZ, Postma were able to keep the installation costs down and reduce the fan on-load while improving dehumidification.

Retrofitting a VFD to a RTU very rarely happens – usually VFDs are a component of existing equipment, or do not exist on the equipment at all. As another impediment to completing the project, the motors on a standard RTU are not rated for VFD use. To circumnavigate this issue, Postma pulled the motors out of each RTU, sent them away to be rewound, and then reinstalled the motors within a few days to minimize tenant discomfort.

The VFDs were installed in conjunction with Chatham-Kent utility rebates, and for the fan savings alone, the payback is expected to be less than five years.

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



PROJECT TYPE:

Retrofit

INSTALLATION TYPE:

HVAC, VFD on Supply Fan

TOTAL AREA:

80,000 m² (861,113 ft²)

EQUIPMENT INSTALLED:

1 MACH-ProWebCom™
1 SPACE-Sensor™ Temperature
7 MACH-Air™
7 SMART-Sensor™ LCD
16 MACH-ProZone™

INTEGRATION:

BACnet®

TOTAL SYSTEM POINTS:

128 points

RELIABLE CONTROLS® DEALER:

Postma Heating and Cooling

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