

## BLUEPRINT

# FRED VICTOR CENTRE HOUSING RENOVATION TORONTO, ONTARIO

### PROJECT INFORMATION

**Building Type:**

Apartment, Multi-Family

**Architect:**

Maurice Mok, Hilditch Architect

**Consulting Engineer:**

Tak Lau, Principal  
Takric Engineering Ltd.

**Mechanical Contractor:**

Remo DiVito,  
Airway Systems Ltd.

**Distributor:**

Tom Loughran,  
Comfort Connections

### Challenge:

*Limited roof area, structural impact to the building, and additional power consumption to the building*

### The Solution:

*Daikin VRVIII systems*

The existing nine story apartment building in downtown Toronto had only heating provided by boilers. The renovation provided heating and air conditioning to minimize the structural and power impact on the existing building. Daikin VRV systems were selected to suit this application.

There were three challenges that the new system had to overcome. The first challenge was the limited roof area with scattered locations for the outdoor units to be installed. No additional space would be available for HVAC equipment such as a chiller. The second challenge was the structural impact to the building. For conventional air conditioning systems, a chiller and cooling tower would impose large structural load to the building. The third challenge was the additional power consumption of the air conditioning system to the building.

Two Daikin systems serve the residential part of the building. The compact outdoor condensing units were strategically placed on two roof areas to minimize any structural impact to the building and to fit in the limited roof area. In addition, the high efficiency of the Daikin system allows the building to meet the additional load of the electrical services.



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*"I was amazed that although we had to include two boilers as backup, even during the coldest parts of the winter, the VRV heat pump was all that was required and the boilers never came on."*

*"Airway Systems did a great job of the installation."*

*"Comfort Connections provided a project manager to work with the installation company during the total installation."*

*"As an engineering firm doing lots of this type of work, we would definitely spec this Daikin equipment again."*

Tak Lau,  
Takric Engineering Ltd.

*"Although we had never used Daikin equipment before, we were pleasantly surprised at how easy and simple the installation went."*

Remo DiVito,  
Airways Systems Ltd.

## DAIKIN EQUIPMENT

- 1 RXYQ96PTJU  
8 Ton Outdoor Unit
- 1 RXYQ120PTJU 10 Ton  
Outdoor Unit
- 1 RXYQ144PTJU 12 Ton  
Outdoor Unit
- 1 RXYQ216PTJU 18 Ton  
Outdoor Unit
- 1 FXTQ12PAVJU  
Air Handling Unit
- 1 FXTQ18PAVJU Air Handling Unit
- 1 FXTQ24PAVJU Air Handling Unit
- 1 FXMQ07PVJU  
DC Ducted Concealed Ceiling Unit
- 1 FXMQ18PVJU  
DC Ducted Concealed Ceiling Unit
- 1 FXDQ07MVJU  
Slim Duct Built-In  
Concealed Ceiling Unit

**FIND OUT MORE ABOUT DAIKIN VRV.**  
Contact your local dealer or manufacturer's representative.

### Additional information

Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer.

Actual savings and costs will vary. Cost and savings statements are applicable solely to the installation indicated. For additional information please contact the installing contractor, distributor or factory representatives.



Our continuing commitment to quality products may mean a change in specifications without notice.

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