

BLUEPRINT

KEHOE EQUIPMENT LTD. OFFICE RETROFIT EDMONTON, ALBERTA, CANADA



Challenge:

provide adequate zoning and the

The Solution:

As part of the new tenant agreement, Kehoe Equipment LTD was responsible for upgrading the entire HVAC system. The existing system consisted of 7 outside condensing units with 7 indoor furnaces, a ceiling mounted water cooled heat pump and a ceiling hung furnace for the warehouse. It was decided to replace all existing equipment with a single VRV heat recovery system that would include 9 zones and 25 fan coils. A 20-ton system, made up of two 10-ton VRV modules, were housed in a small mechanical room equipped with dampers to automatically control the ambient air entering the units. Dampers optimally controlled either outside ambient air or inside heated air from the adjacent warehouse into the VRV

condensing units. The adjacent warehouse was fitted with two ceiling hung unit heaters to keep the warehouse warm during the cold winter and also provide tempered air for the VRV condensing units.

This simple, cold climate VRV system design, combined with cost effective commercial unit heaters, provides a simple solution for housing VRV condensing units within a compact, indoor mechanical room enclosure. Additional advantages of the indoor mechanical room included elimination of vandalism and theft, additional outside space and building appearance, longevity and better performance of equipment that is not exposed to extreme outdoor temperatures and weather.





PROJECT INFORMATION

Building Type: Office Floors: 1 Main and 1 Mezzanine Square Feet: 11,000 sq. ft.

Engineer/Architect/Contractor: Kehoe Equipment LTD Edmonton. Alberta. Canada

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VRV air-cooled condensing units installed in a climate controlled mechanical room equipped with dampers for maximizing all-year round heat pump performance in a cold climate application

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.

DAIKIN EQUIPMENT

- VRV III Heat Recovery Units – 1 REYQ24OPBJT
- Branch Selector Units – 5 BSVQ36PVJU
- Indoor Wall Mounted Units – 1 FXAQ18PVJU
- Indoor Round Flow Cassette Units – 3 FXFQ18PVJU – 2 FXFQ24PVJU
- Indoor 4-Way Cassette Units
- 1 FXZQ07MVJU9
- 7 FXZQ09MVJU9
- 3 FXZQ12MVJU9
- Indoor Ceiling Suspended Units - 1 FXHQ24MVJU
- Indoor Floor Standing Units – 1 FXLQ12MVJU9
- DC-Ducted Concealed Units – 2 FXMQ18PVJU
- **REFNET Branch Piping Kits**
- 2 KHRP25A22T
- 2 KHRP25M73TU
- 6 KHRP26A22T
- Intelligent Touch Controller – 1 DCS601C71
- Navigation Wired Remote Controller – 21 BRC1E71

