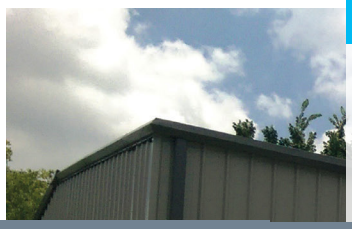
DAIKIN

BLUEPRINT



COMFLOW MECHANICAL SERVICES
HOUSTON, TX

PROJECT INFORMATION

Building Type: Office

Floors: 1

Square Feet: 4,500 sq. ft.

Manufacturer's Representative:
DXS (Direct Expansion Solutions), Houston, TX

Building Owner:
Comflow Mechanical Services, Houston, TX

Mechanical Contractor:
Comflow Mechanical Services, Houston, TX

Consulting Engineer:
Dawson Van Orden, Houston, TX

Challenge:

Comflow Mechanical Services' growing business required more office space quickly so speed of installation was one of the most important parameters along with Total Life Cycle Cost. Comflow's desire to have a trophy showcase HVAC system to use as a marketing tool for future business opportunities led them to consider Daikin's VRV — A high efficiency HVAC system that could provide both heating and cooling, with individual area zoning and scheduling capability for both the large open office area and the individual smaller offices.

The Solution:

Minimal duct work was the key contributor to faster installation time. With all things considered (efficiency, minimal ductwork, zoning, comfort, etc...), Daikin VRV system provided the best long-term cost solution compared to other VAV systems considered. The Daikin VRV Heat Recovery system with concealed ducted units for the large open office area, DZK zoning for the ground floor smaller offices and Ceiling Cassettes for the 2nd floor mechanical platform provided a variety of features to proudly show and demonstrate to future customers.

Comflow Mechanical Services' business has been growing and President, Jon Wiesmann, needed more office space to accommodate the growing number of employees. Fortunately, Comflow Mechanical is also a mechanical contractor that specializes in the installation of Daikin VRV equipment. Installation time, zoning control and comfort were the highest priority factors considered for the new office and comparisons were made to other standard, ducted VAV type systems.

Jon knew that they would be in this building for many years to come so the total life cycle cost was considered along

with the initial cost. Overall, the benefits of the Daikin VRV system continued to come out on top. Being in the business and knowing the products well, they wanted only the best so they decided on a Daikin VRV Heat Recovery system as the base system that would be capable of providing simultaneous heating and cooling from the same system. The new building has one floor with a wide open office space and a mechanical platform upstairs. Concealed ducted units were an easy design choice to comfortably control the large open office area and concealed ducted units with a DZK zoning system were used to provide comfort and control for each individual smaller office on the ground floor. Ceiling Mounted Cassette units were used to condition the upstairs mechanical platform. The units' unique built-in occupancy sensor has two main functions: save energy and optimize occupancy comfort. In order to save energy, the function of the occupancy sensor can be used to automatically set back the air temperature and also lower the fan speed if no people are present in the room.

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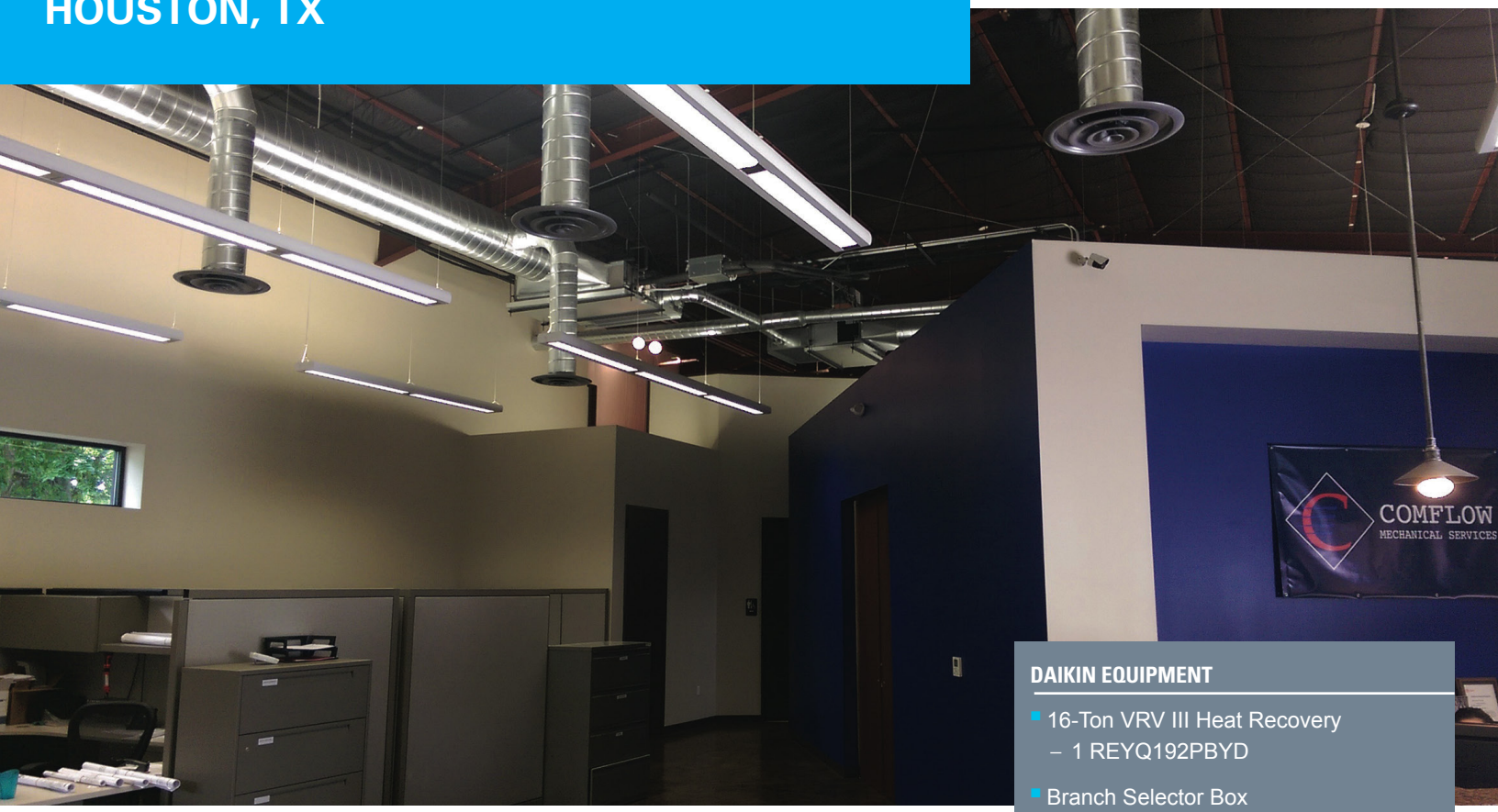

DAIKIN EQUIPMENT

- 16-Ton VRV III Heat Recovery
  - 1 REYQ192PBYD
- Branch Selector Box
  - 4 BSVQ36PVJU
  - 1 BSVQ60PVJU
- Round Flow Sensing Cassette
  - 2 FXFQ09TVJU
- DC-Ducted Concealed Ceiling Unit
  - 2 FXMQ09PAVJU
  - 1 FXMQ18PAVJU
  - 2 FXMQ24PAVJU
  - 1 FXMQ36PAVJU
  - 1 FXMQ48PAVJU
- Navigation Remote Controller
  - 9 BRC1E72
- 1 DZK Zoning Kit
  - 1 DZK048E6

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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