

# MAKE ENERGY SOLUTIONS EASY

SANTÉ CENTRE

MODERN SOLUTION - SAVES MONEY

## THE HISTORY

For over 13 years, the doctors and health advocates at Santé Centre have been delivering chiropractic care services to their customers. They dreamt of selecting and assembling businesses that would assist their journey toward optimal health and borne out of this idea, Santé Centre became home to this like-minded team of professionals.

During its design and development, important considerations were placed on comfort and reducing annual operating costs. The building owners made a conscious decision to invest in the competitiveness of their businesses by targeting energy efficiency. The project began there - a conversation with Nova Scotia Power about reducing energy costs.

## THE CUSTOMER

Santé Centre is a two-story, 20,265 square foot commercial multi-tenant wellness centre, offering a variety of health, fitness and health food services to customers.

Today, over 40% of heating, cooling, and ventilation in commercial buildings are served by packaged "all-in-one" rooftop units. There are several solutions available on the market to reduce the energy intensity and energy costs of medium-sized commercial buildings. For this project, Santé Centre focused on high performance rooftop heat pumps, energy recovery ventilators, and modern building automation systems and control sequences.

A detailed analysis indicated that pairing high performance rooftop heat pumps with Variable Air Volume (VAV) zoning terminals and a Building Automation System (BAS) was the best solution for energy reduction and cost savings.

## THE SOLUTION

**The implemented solutions were tailored to meet the varying thermal comfort demands of the building while simultaneously minimizing the buildings' energy footprint and costs:**

- Four (4) 10-ton Daikin Rebel rooftop heat pump units
- Four (4) 800 cfm Energy Recovery Ventilators
- Web-enabled Building Automation System
- Variable Air Volume distribution and zoning system
- Energy data monitoring and management



## THE BENEFITS AND FEATURES

The Energy Recovery Ventilator draws in its own fresh air from outside and then provides conditioned return air to each rooftop unit. The outdoor air economizers on each rooftop unit will draw in fresh outdoor air to supplement cooling demands, but is only used for emergency backup ventilation requirements. These ventilators also exchange heat from exhaust air which is then routed from all bathrooms at Santé Centre to provide supplemental heat in the building.

**Nova Scotia Power and PMC Energy Performance were able to uncover a series of high performance heating, cooling, and ventilation solutions that will pay for themselves in 5 years by providing a significant reduction in annual energy costs.**

For a copy of the complete case study or to learn more, contact one of our business solutions experts at: [businesssolutions@nspower.ca](mailto:businesssolutions@nspower.ca)