



Yorkville Tower, Toronto





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Challenge

The new Yorkville Tower construction project will consist of one 36 storey and one 12 storey residential condominium above one floor of retail space. The Make Up Air requirements for the entire structure are met by CGC Group Varipak units. The original concerns about exceeding the equipment budget were overcome by a step by step analysis of the building. The findings indicated that using traditional heat pumps would demand an increase in the fluid cooler, piping system, pumping stations and primary electrical service. A solution was required that met both the budgetary constraints as well as high environmental and efficiency standards.

The Solution

Given the parameters of maximizing efficiency and adhering to strict cost limitations, the Hybrid Heat Pump was the natural choice. Its low installation cost reduced initial capital outlay, while cooling efficiency yielded a lower operating cost. The Hybrid Heat Pump belies its low budget operation with its ultra quiet operation, primarily due to the compressor not operating when heating. An added bonus to the building was the great flexibility offered with the Varipak Make Up Air units for outdoor air treatment in common and retail areas. The result was a solution flexible enough to meet the varying requirements of a multi level structure with a high level of efficiency. Innovative applications of the CGC range not only met the budgetary requirements, but produced an environmentally sound and economically efficient system that will produce results well into the future.

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