



Volume Two / Issue 4 **CASE STUDY**
January 2006

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Revolutionary Evergreen® 23XRV Chiller Exceeds Performance Goals

PRODUCT
 23XRV Evergreen®
 Variable Speed Screw
 Chiller



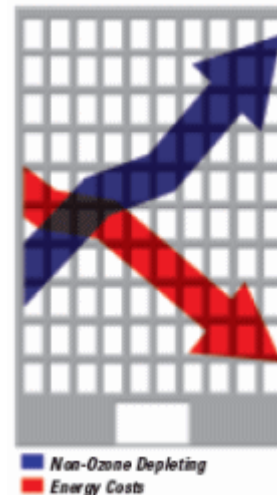
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When CityView Properties of Buffalo, New York, bought the old Larkin Company Building in downtown Buffalo, they were committed to renovating the building's cooling system in two phases as the building filled with tenants. As building occupancy exceeded 60% in rapid fashion, CityView quickly required a second chiller to meet demand. CityView and its consulting engineer, C. Gary Jones, P.E., of Jones Engineering, worked with Carrier to line up one of the first Evergreen® 23XRV chillers to come off the assembly line to meet the increased load and save energy.

One 23XRV variable speed water-cooled screw chiller was selected to augment an existing Carrier chiller. The 23XRV's efficiency, use of HFC-134a environmentally sound refrigerant and variable load capacity were deciding factors in selecting Carrier.

During the first step of the building's modernization program, the existing HVAC equipment was removed and a new Carrier centrifugal chiller was installed. The chiller was sized for approximately 60% occupancy of the available space and was an effective short-term solution. When occupancy approached 60%, it was time to address the HVAC system's need for additional capacity.



The Carrier Evergreen® 23XRV chiller delivers decreased energy costs while providing an environmentally sound solution.

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"Our building was quickly filling with a variety of tenants occupying from 800 to 120,000 square feet that required individual cooling control to meet their unique needs," said Bill Jones, vice president of CityView. "When Gary came to us with the new 23XRV chiller, he presented a solution that met the load and flexibility requirements but was also a forward-thinking, future-proof system."

Gary Jones worked closely with Carrier to review the 23XRV's product specifications and performance data to develop the new system. "I was drawn to its outstanding performance at low loads. And under real-life load conditions, the 23XRV is proving to perform as promised," said Gary Jones.

Speed was critical in getting the 23XRV chiller in place to meet the building's growing tenant list. "I had faith in the people at Carrier that the 23XRV we were receiving would be up and running quickly. We installed the 23XRV and started it up with the intention of running it for an afternoon as a test and to look at the data. It ran so smoothly that we just kept it running," said Gary Jones.

The system's flexibility to meet the individual needs of a variety of tenants has proven successful. "One of our tenants' biggest concerns is the cooling of computer server rooms. With the new system, they don't have to employ any special, costly cooling systems," said Bill Jones. "We're finding it easier and cheaper to exceed their expectations thanks to the new chiller."

CityView is pleased with the energy efficiency of the 23XRV. "Thus far, we are clearly using less energy," said Bill Jones.

[Learn more](#) about Carrier chillers or [download](#) the complete case study.



Installation of Carrier 23XRV chiller

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