

L Series^o Units and Johnson Controls

Case Study
QUALITY & INNOVATION

Energy Savings Go Through the Roof

Lennox Industries and Johnson Controls team up on a commercial retrofit project that realized a savings of nearly 50% in electric consumption over previous summer periods while operating with 34 tons of cooling.

The Challenge

How do you take a 1970s-vintage office building with 54,000 feet and four stories and convert it to an efficient, comfortable system that features leading-edge technology and controls?

That was the task that Carol Holgerson, Vice President of County Fair Air Conditioning in Westbury, NY, was faced with as he accepted the challenge posed by Frank Penna, President of Curzon Design Ltd., a Long Island-based real estate and gift ware sales company.



Curzon decided to replace three 30 year-old basement multi-zone split systems in its office building, which is occupied by multiple tenants.

“We’ve been working with County Fair for the past 10 years,” Penna said. “We have the highest regard for their work and their recommendations.”

Tasked with the assignment and bolstered by Penna’s faith in County Fair’s abilities, Holgerson set out to solve the problem in a way that could provide Curzon with the highest level of comfort and the greatest efficiency and control possible.

Holgerson realized he needed to expand his resources, so he called on the design assistance of J-Mar Controls, the local Johnson Controls authorized networked systems distributor. County Fair had teamed up with J-Mar Controls in the past year on direct digital controls (DDC) projects, and both parties felt DDC would be an ideal fit for Curzon.

The Solution

“When we found out the L Series® line of commercial roof top equipment

The L Series® unit allows you to factory install DDC controls.

offered the option of installing the Johnson Controls Facilitator

system at the factory, the choice was clear,” Holgerson said. Holgerson had recently been on a rooftop to check out an installed Lennox L Series unit first hand. What he saw impressed him.

“We had been using another commercial manufacturer almost exclusively,” he said, “but we virtually made the decision while still on the roof to quote Lennox on all our future jobs. The L Series unit is well laid-out and extremely convenient to service, which helps lower maintenance costs.”

“Johnson Controls Facilitator provides County Fair with the most flexible, adaptable, and expandable system to meet any project’s requirements,” Holgerson said. “We were looking to provide Curzon with more control options, as well as generate energy savings,” Holgerson said. “For us, the L Series and Facilitator make for a very efficient combination. The factory-mount option greatly reduces the chances of call-backs on system configuration issues.”

Holgerson also praised the Lennox option of installing the Facilitator at the factory.

“It’s a real time-saver.” He said, “and that

Save time and money with the L Series® units.

can add up to big savings for building owners, because your typical field installation can have literally dozens of wiring configurations.”

Basically, our job-site wiring with the Lennox-Facilitator system involved plugging in four connections. With the Lennox-Facilitator combination, we spend less installation time at the job site, and the electrical wiring costs are much lower.”

To complete the job, Holgerson installed six Lennox LGA180H high efficiency

15-ton roof tops and two LGA240H high efficiency 20-ton rooftops, all with factory mounted Facilitator controls. Has it been successful?

here, and a project like this helps us stand apart.”

The Solution

Even with the new system operating with 34 tons more cooling than the old

Lennox can help you increase comfort levels and reduce energy use.

system, the Curzon building realized 48% savings in electric consumption in May-July comparisons one year apart.

And for the first time, the Curzon owners say the entire building is comfortable.

“It appears we’ve eliminated all of the old hot spots,” Holgerson said. Holgerson continued, “The Johnson Controls Facilitator system gives the owners many more cooling options to choose from and helps them control their electric costs.

When building owners choose to combine Facilitator’s flexibility with Lennox factory-installed options and reputation for reliability, we fell they will dramatically reduce their total system life cycle cost.”

The success of the Curzon project has resulted in additional work for County Fair.

“It was a stellar project, and it’s certainly helped us get more business,” Holgerson said. “This is a tough marketplace up