



**Jack in the Box
Adds Green To The Menu**



Honeywell LCBS™ PROVIDES ENERGY AND COST CONTROL

Jack in the Box Inc. company headquarters in San Diego, Calif., employs 650 people and is critical to the daily operations of more than 2,200 Jack in the Box® restaurants. With two buildings totaling over 200,000 square feet, the headquarters houses state-of-the-art research facilities, a high-tech data center and numerous executive and administrative offices. As energy costs skyrocketed in California, the company began to look for ways to reduce energy costs and create greater sustainability within its facilities. Preventive maintenance mechanical contractor Weatherite suggested an out-of-the-box solution from Honeywell — the Light Commercial Building Solution™ (LCBS).

Honeywell's Light Commercial Building Solution integrates heating, ventilation and air conditioning control for simpler, more convenient, and economical facilities management.

The Goals

- Maintain employee comfort while reducing energy and kilowatt usage at corporate headquarters
- Maintain optimal operating temperature for data center
- Be a good corporate citizen by increasing sustainability and furthering "green" mission

Honeywell Products Installed

- Light Commercial Building Solution (LCBS)

The Results

- Energy Efficiency Rating (EER) increased from 8 to 11
- Jack in the Box expects to save \$1.2 million over the lifetime of the equipment
- Alarm system activates if data center temperature exceeds 78° F
- Corporate facilities staff controls the system through PC or remote access

Contractor

Weatherite
9560 Candida St.
San Diego, CA 92126
858-860-8900
www.weatherite.com

Distributor

Burke Engineering Co.
4250 Pepsi Dr. #D
San Diego, CA 92111
858-874-8499
www.burkehvacr.com

The Challenges

Under the direction of Rozlin Guthrie, director of corporate facilities for Jack in the Box, the company had recently ramped up its efforts to operate efficiently and become a more green corporate citizen. With that mission in mind, attention fell on the outdated rooftop air conditioning units.

Many of the 94 air conditioning units were 15 to 20 years old and were routinely in need of repairs. Moreover, the old equipment was inefficient, operating at 8 EER. "Our kilowatt usage was at an alarmingly high rate because the units were controlled by mechanical time clocks," said Greg Sutton, operations manager for the company's corporate facilities. "We needed to control the cost of our energy intake and the cost of maintaining such old equipment."

Jack in the Box turned to their contracted HVAC maintenance provider, Weatherite, which had a nine-year working relationship with the company. "We knew Jack in the Box had a strategic objective to save energy while protecting the comfort of their employees," said Jim Barnings, regional manager for Weatherite. "They also needed an open system that didn't tie them to one contractor and would let them easily operate and control programming from a computer. Honeywell Light Commercial Building Solution met all their demands."

Thinking Out-Of-The-Box

The initial consideration was installing several cost-effective seven-day programmable thermostats to control the temperature throughout corporate headquarters for Jack in the Box. "They needed another option that didn't require someone to program each of the thermostats," said Jack Boneham of Burke Engineering Co., the distributor for Weatherite and an authorized Honeywell trainer. "With a thermostat, there is no way to account for holidays when no one is in the office. Once you educate people about their utility bills, it's easy to show them that they need more control."

Jack in the Box replaced the air conditioners with new, high-efficiency units, and Weatherite showed them how they could save more by installing Honeywell LCBS. "LCBS was the heart to achieve our goals at Jack in the Box. Feature rich options made it an easy choice when comparing other manufacturers — the open protocols, load shedding, remote support, price point, ease of installation along with Honeywell's expert support and technology," said Barnings.

LCBS allowed the company to take stock of its power consumption and respond using Honeywell software. For instance, LCBS allowed Sutton to pre-cool the facilities so the building was comfortable when employees arrived. "We gave them information they would otherwise have been blind to," said Barnings.

"We knew another advantage of the LCBS system was its alarm function, which would be useful for monitoring our data center and freezers," said Sutton. Combined with features like energy trending and reporting, load control, demand limit control, off-site monitoring, time-of-day scheduling and setback, LCBS was the out-of-the-box system for Jack in the Box.

"Honeywell systems are non-proprietary, they're user-friendly and our customers get the reliability of the Honeywell name as well as any needed aftermarket support," said Barnings. "While there are other control products, it's easy to choose Honeywell." As well, capturing critical data is paramount to cost effectively controlling your enterprise and taking full advantage of the Honeywell LCBS offering.

Learning LCBS

The installation of LCBS was easy, said Sutton. "It was simple to install, simple to learn and it will be simple to make changes to the system as needed in the future," he noted.

Boneham was on site during the entire installation to assist Weatherite and train Jack in the Box employees to control LCBS and read its data. "The whole system is plug-and-play. The operator just has to fill in the blanks," Boneham said. "The LCBS program self-discovers components, and it's easy to configure different areas based on the company's need."

In fact, Boneham said the Honeywell LCBS control is the easiest system to teach and train new operators. "An end-user can understand and run the system completely in two to four hours."

The Results

One of the first goals after the installation of the LCBS system at Jack in the Box was to begin load shedding — taking A/C units out of service for a limited amount of time and allowing the temperature of an area to drift upward. "The key to load shedding is to find the point where the occupants object to the temperature difference. That allows the operator to establish a regular temperature just below that point to save energy," said Barnings. Using the LCBS' pulse meter, Sutton was able to load shed for almost one month before any employees noticed a change in temperature.

Jack in the Box is also better able to monitor its critical data center with the new LCBS system. "The controller sends an alarm to over 10 people, including the contractor, when the temperature in the data center goes over 78 degrees," said Sutton. "With the old equipment, we would rely on daily inspections by our in-house staff." The company also has secondary alarms that monitor the freezers in the research facility.

With the installation of Honeywell LCBS, Jack in the Box expects to save \$1.2 million over the lifetime of the equipment. That number has impressed other companies that want to save money and help save the environment by cutting energy costs. "Because of the company's green mission, other utility customers have looked to us for advice on saving money and becoming better environmental stewards," said Sutton. "We try to participate in every energy-saving program that is available, because we know that sustainability is important. As our company continues to grow, we can effectively manage our energy use."

Find out more

For more information, please contact your
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March 2008
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