About ArcBest

ArcBest℠ is a multibillion-dollar logistics company delivering integrated solutions primarily under the ArcBest brand. Offerings include less-than-truckload services via the ABF Freight® network, ground expedited solutions through Panther Premium Logistics®, household moving under the U-Pack® brand and vehicle maintenance and repair from FleetNet America®. From Fortune 100 companies to small businesses, customers trust and rely on ArcBest for their transportation and logistics needs.

The Challenge

Originally designed to support an occupancy level of 850 people, the corporate headquarters has grown to now have 1,085 people plus visitors, sometimes reaching up to 1,200 people. Ten percent of the people work at night, requiring 24/7 conditioning of air. The increase in occupancy drove a need to introduce more outside air to maintain indoor air quality. All of this outside air had to be conditioned, increasing electrical energy costs. In addition, the extra outside air caused drafts on cold winter days, and during the summer the extra outside air flow through the air handlers resulted in some parts of the building getting too cool. “I previously got calls from people that they were cold during the summer, which was a direct result of having to introduce so much chilled air into the building to meet the appropriate CO₂ levels,” said Richard Rieske, Director of Corporate Facilities at ArcBest. “Likewise, they felt drafts during the winter due to all the outside air that was being used to ventilate the building. When the HLR modules are running, our people are more comfortable.”

Customer: ArcBest
(NASDAQ: ARCB)
Climate Zone: 3A
Deployed: June, 2016
Location: Fort Smith, Arkansas
Industry: Freight Transportation and Logistics
Employees: Over 13,000
Annual Revenue: $2.67 billion
(Year Ended December 31, 2015)
Challenges: Building was designed for 850 people; now supports up to 1,200. As a result, increased ventilation is required causing drafts in the building during both winter and summer.
Solution: 10 enVerid HLR 1000E modules - two installed on each floor, one per wing - to scrub air of contaminants and reduce the amount of outside air ventilation required.

Results:

- 273 tons reduction in HVAC cooling peak load
- $63,709 energy cost savings annually
- 65% average reduction in outside air (IAQP using HLR vs VRP)
- $11,535 in water and wastewater savings
- $66,900 utility rebate
- Extended filter life
- Maintained indoor air quality
- Better indoor air comfort

Figure 1: The five-story ArcBest Corporate Headquarters Building, has approximately 190,000 ft² of office space divided into two primary zones per floor.
enVerid Systems, Inc. is committed to improving energy efficiency and indoor air quality in buildings worldwide through its innovative HVAC Load Reduction® (HLR®) solutions. Awarded the prestigious 2016 R&D 100 Award, enVerid is the only solution that helps commercial, education and government buildings remove carbon dioxide (CO2), aldehydes, volatile organic compounds (VOCs) and particulate matter (PM2.5) from indoor air, reducing the outside air intake required for ventilation. enVerid’s HLR technology is ASHRAE-compliant and has been recognized by the U.S. Department of Energy, the U.S. General Services Administration’s Green Proving Ground Program, and the U.S. Green Building Council. For more information, please visit www.enverid.com.

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