

# MANN REPORT

## Major New York Financial Services Company Selects enVerid Systems HLR® Technology

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EnVired's HLR module cleans and recycles indoorair to safely and intelligently remove contaminants.

With commercial buildings spending as much as \$80 billion annually on heating, ventilating and air conditioning (HVAC) costs, the industry is looking to new technologies to pave the way for a future that is friendlier to the bottom line.

Such was the case for a major global financial services company based in Manhattan, seeking an innovative solution to boost annual energy savings and improve the indoor air quality of its headquarters. Acting as overall project manager, HRVAC Consulting Engineering Co. Ltd. selected a leading New York-based engineering firm to do the design work for the installation of enVerid Systems Inc.'s HVAC Load

Reduction® (HLR®) technology in the financial services company's 42-story headquarters building.

enVerid has seen growing demand for its HLR system with mechanical engineers, building owners, architects and facilities managers. The HLR module is the only solution that safely and intelligently cleans indoor air of contaminants such as carbon dioxide, aldehydes, and volatile organic compounds (VOCs), thereby decreasing the outside air required for ventilation. This helps reduce energy consumption by 20 to 30 percent and significantly lower HVAC costs, while improving indoor air quality for better health, productivity and satisfaction.

"We are committed to shaping the future of the building industry," said Dr. Udi Meirav, founder and CEO, enVerid Systems Inc. "Our pioneering technologies are already helping to boost energy efficiency, cost savings, and improve indoor air quality in commercial buildings in New York and worldwide."

For commercial buildings, indoor air is typically replaced with outside air every one to two hours to prevent high concentrations of indoor pollutants. While the process helps limit these pollutants, the high volume of outdoor air must be heated or cooled to maintain comfortable temperatures and humidity inside the building. This represents 30 to 50 percent of the total load on HVAC systems in most climates, resulting in higher first cost on HVAC systems and higher ongoing energy costs. What's more, outside air is not always clean air, especially for buildings located in busy city centers like New York where bringing in outside air can introduce harmful pollutants like fine particulate matter, carbon monoxide, nitrous oxides, sulfuric oxides and other harmful carcinogens.

"Outside air quality in a high-traffic city like New York is not always healthy, which is why enVerid's HLR technology is particularly beneficial," said Eitan Harel, General Manager and Owner, HRVAC Consulting Engineering Co. Ltd. "The technology is unique in that it focuses on cleaning the indoor air, as opposed to just diluting it through increased outside air intake."

By cleaning and recycling the indoor air instead of constantly replacing it with outside air, enVerid's HLR system decreases the outside air intake required to ventilate a building by 60 percent to 80 percent and also reduces peak HVAC capacity, resulting in up to 40 percent lower utility demand charges.

"Superior indoor air quality is critical for our customers in New York that are faced with the challenge of increasingly high levels of outside air pollution," said Tom Burke, Northeast Sales Manager, enVerid Systems Inc. "The enVerid HLR system ensures indoor air quality is never compromised, which numerous studies now show is critical to peak cognitive performance and productivity."

With HLR technology, buildings can invest in lower-capacity and less expensive HVAC systems, and benefit from decreased maintenance costs and extended life of existing

equipment. The HLR technology is also eligible for local utility rebate programs and has earned significant LEED credits.

“We saw an opportunity to fill a gap in the market with an intelligent technology solution that would more efficiently and effectively capture and clean contaminants like CO<sub>2</sub> from indoor air to increase energy efficiency and cost savings,” said Dr. Meirav. “Our HLR solution is now at the forefront of the industry and has been proven effective for decades in airtight environments of spacecraft and submarines.”

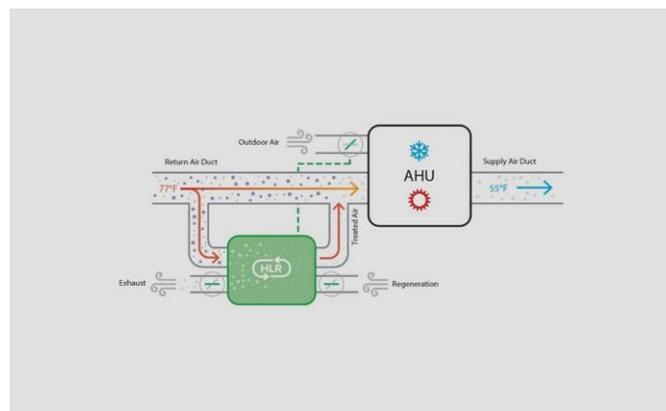
The enVerid solution is unique in four ways:

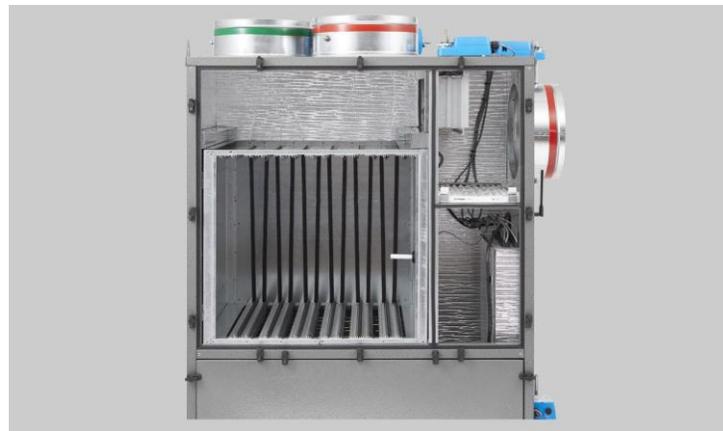
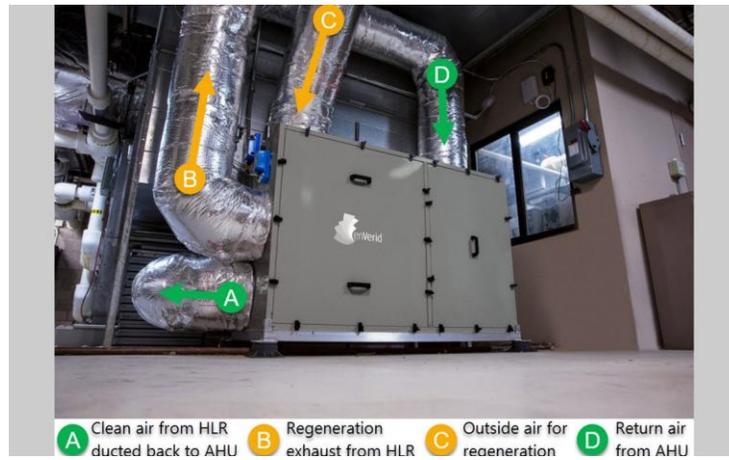
- The only solution to remove carbon dioxide, and safely removes formaldehyde and hundreds of VOCs.
- Has been certified by respected third-party labs to not produce any byproducts during operation.
- Uses a relatively low-heat, in situ regeneration process to maintain the high air-cleaning efficiency of its sorbent cartridges.
- Provides 24/7 monitoring and management of indoor air quality, giving customers far more control over indoor air quality than they had before.

EnVerid has been deploying HLR modules since 2012 with major corporations as well as at leading universities and in government buildings. The technology is compliant to the standards for ventilation defined by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and has been endorsed 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 (USGBC).

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