Maintaining Indoor Air Quality (IAQ) is a Huge Expense

Indoor air is continuously replaced with outside air to maintain air quality. IAQ is important to meet building codes and for occupant health and productivity.

Cleaning Indoor Air is the Answer

The enVerid HVAC Load Reduction (HLR) module is an intelligent scrubber that removes all indoor air contaminants, including carbon dioxide (CO₂), aldehydes and volatile organic compounds (VOCs).

Rather than rely solely on outside air ventilation, HLR modules clean and recycle indoor air, thereby reducing the required outside air by 60-80%, enabling 20-30% energy savings. Peak savings routinely exceed 40%.
Advanced Synthetic Sorbents Safely Remove Contaminants

enVerid's specialized sorbents are packaged in field-replaceable cartridges that slide inside HLR modules. These revolutionary sorbents capture all indoor air contaminants, undergo automatic self-cleaning periodically to maintain their cleaning efficiency, and only need to be replaced annually.

Put an End to Wasted Energy and Oversized HVAC Systems

By cleaning the indoor air, buildings can use less outside air for ventilation and thereby lower electric utility demand charges by up to 40%, which in turn substantially reduces capacity requirements and energy consumption – plus wear and tear – of the HVAC equipment.
Intelligent Air Quality Management

Using built-in sensors and intelligent algorithms, HLR modules address changes in indoor contaminant emissions in response to fluctuating conditions in the building.

As the thermostat revolutionized temperature control, HLR technology is revolutionizing IAQ control.

Occupant Health and Productivity

With people spending 90% of their time indoors, IAQ has an enormous impact on health. Multiple studies showing that better IAQ can increase performance and productivity.¹

Keeps Out Polluted Air

In addition to removing indoor air contaminants, HLR technology also reduces the outside air pollution entering the building, a major benefit in metropolitan areas or near highways, airports, and highly trafficked areas.

¹ Visit enVerid.com/iaq-research for studies from Harvard, Berkley Labs, NBER and others.
Ideal for New Construction and Retrofits

HLR technology is **easy to specify and install** – with the modularity to scale to any building size. In new construction and renovations, HLR modules provide **immediate payback from eliminating or downsizing HVAC equipment**.

![HLR technology](image1)

Eliminate or downsize all of this HVAC equipment by using HLR technology

HLR modules are compatible with existing HVAC systems for retrofit and tenant fit-outs enabling buildings to support higher than expected occupancy with an attractive ROI.

ASHRAE-Compliant and Eligible for LEED Credits

HLR technology meets ASHRAE Standard 62.1 (IAQP) and may help deployments **earn up to 17 LEED points**:

- 8 points for Energy
- 6 points for Indoor Environmental Quality
- 3 points for Innovation

![ASHRAE](image2)  
![IMC](image3)  
![WELL](image4)

HLR technology also meets the International Mechanical Code (IMC) and WELL requirements.

Designed for Long Life and Low Maintenance

HLR modules are designed for 20+ years of operating life. Cartridges are replaced annually.

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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 (PM₁₀) 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](http://www.enverid.com).