

Breakthrough ERV Technology and
Performance. Only from

ConsERV

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ConsERV

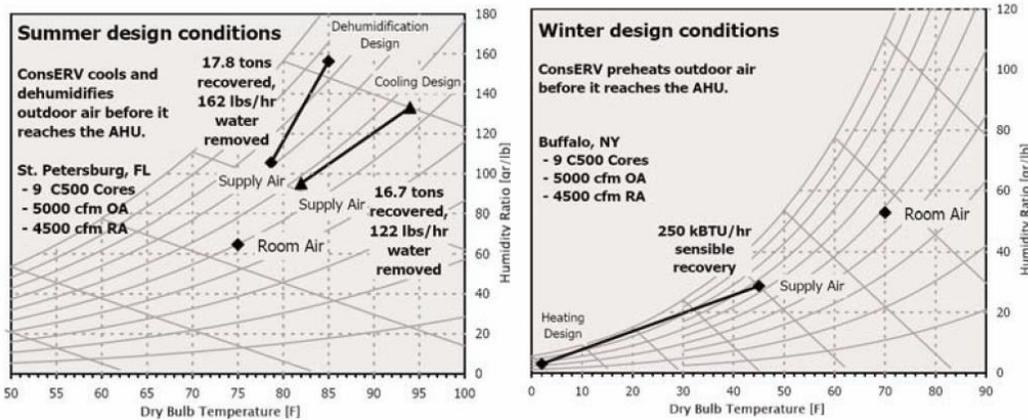
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ConsERV Breaks New Ground in Sustainable Simplicity

ConsERV keeps building owners and occupants healthier, wealthier, and wiser:

- Reduce CO₂ generation for a sustainable future
- Extremely high latent (moisture) transfer
- No moving parts to maintain or break
- Reduces operating costs – Saves energy
- Zero exhaust air transfer leakage
- No condensate, so no need for drains
- Safely downsize HVAC equipment capacity up to 67%
- 3X as energy efficient as conventional coils
- Humidity control reduces potential for mold growth
- ConsERV membrane is inherently anti-microbial
- Low and simple system maintenance
- Significant Return on Investment benefit

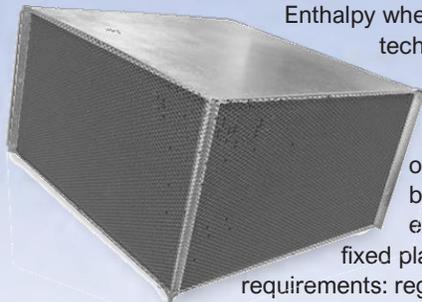
Industry-Leading Effectiveness Saves Energy AND Money



By preconditioning the outside air entering the air handler, the patented ConsERV core system *reduces HVAC energy costs* by an average of 30%. Plus, you can safely **downsize your equipment** by up to 67%, lowering capital, installation, and on-going operating costs. And by specifying ConsERV in a regulation driven ventilation environment, you will meet green building standards while **reducing** the building's carbon footprint.

The ConsERV Strategic Advantages

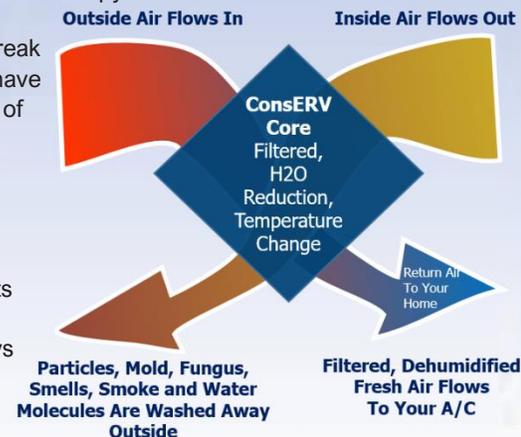
ConsERV vs. Enthalpy Wheels



Enthalpy wheels have been around since the 1970's. The fixed plate ConsERV product, with its nano-technology, provides the highest latent, and sensible performance to address all ventilation opportunities without the known drawbacks of enthalpy wheels.

ConsERV has no moving parts with little to break or maintain opposed to enthalpy wheels which have bushings, bearings, seals, and belts; all sources of equipment failure. ConsERV – being a fixed plate form factor – has minimal maintenance requirements: regularly change the pre-filters with vacuuming the incoming air surface of the core(s).

Unlike an enthalpy wheel, ConsERV requires little or no energy to provide its benefits but enthalpy wheels need energy to drive motor(s) and belt(s), (parasitic loss), making them less efficient. ConsERV performs continuously with any air-flow: always with zero air stream cross contamination.



Proven New Technology and Product in Real World Applications.

ConsERV is a proven solution across a wide variety of applications with tens of thousands of ConsERV cores installed at a wide range of sites (and climates) including schools and universities; hospitals and surgical centers; museums and libraries; office buildings and manufacturing plants; and retail space and hotels.

- Florida Power and Light, Florida
- Museum of Science and Industry, Florida
- Troy School, New York
- Berkshire Brewery, Mass
- American Legion, South Dakota
- Norris School, Nebraska
- Patrick Air Force Base, Florida
- World of Coke Museum, Georgia
- Youth Corrections, Mass
- Our Lady of Light Church, Florida
- Eye Surgery Center, New Jersey
- Huron Ice Arena, South Dakota
- Budsin Boat Manufacturing, North Carolina
- University of Tampa Dormitory, Florida
- Walmart
- Walgreens
- Eye Surgery Center, New Jersey
- US Border Patrol, Florida
- Bowman Shopping Complex, Texas
- Umatilla Free Clinic, Florida
- Barton Mines, New York
- Hull American Bank, Ohio
- University of South Dakota Fine Arts Building
- Intersil Laboratory, Florida



Certified Performance.

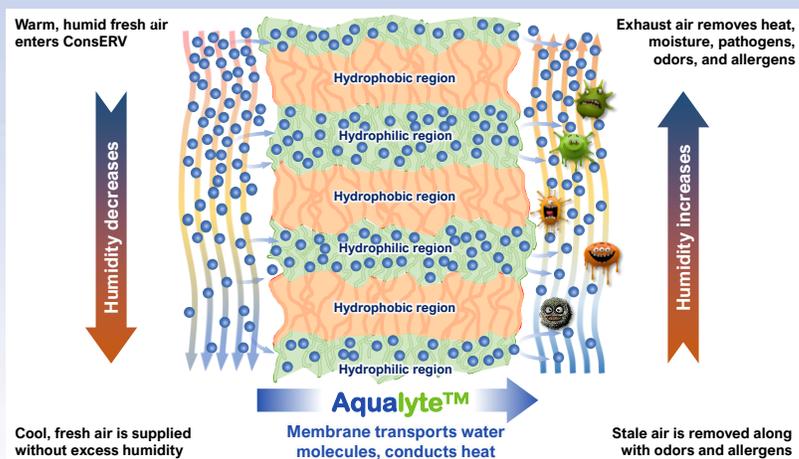


Building Block to Environmental Efficiency.

The high performance of ConsERV systems is not just an economic benefit. ConsERV can be a significant building block in constructing environmentally sound and energy sustainable structures. Those energy savings add up at the power plant, where they reduce CO₂ emissions by up to 2 lb/hr per ton of HVAC saved. Global adoption of ConsERV technology across the ventilation industry has the potential to reduce CO₂ emissions by up to 282 million metric tons of CO₂ per year. Be sure to check for utility or government rebates promoting the installation of high-performance HVAC equipment.

The Essence of ConsERV is Patented Aqualyte™ Nanotechnology

ConsERV offers superior total effectiveness than older fixed plate technology products. The HVAC system works more efficiently, saving energy while satisfying current and pending ventilation requirements (ASHRAE, IEEC, etc.).



A ConsERV core uses the proven **Aqualyte™** polymer membrane to separate incoming fresh air from exiting exhaust air. Aqualyte is nonporous, so it ensures that contaminants in your exhaust air continue out the building and your fresh air stays pure. At the same time, water molecules rapidly transfer through Aqualyte, ensuring that ConsERV is effective in both summer and winter conditions. ConsERV removes moisture from the higher humidity stream and transfers it to the drier air, providing year-round comfort and energy savings.

ConsERV design and performance advantages provide an optimum solution for the return on invested capital with average payback ranging from immediate (new projects with downsized HVAC equipment) to five years (retrofit projects).

ConsERV is the Energy Recovery Solution to Meet Your Needs

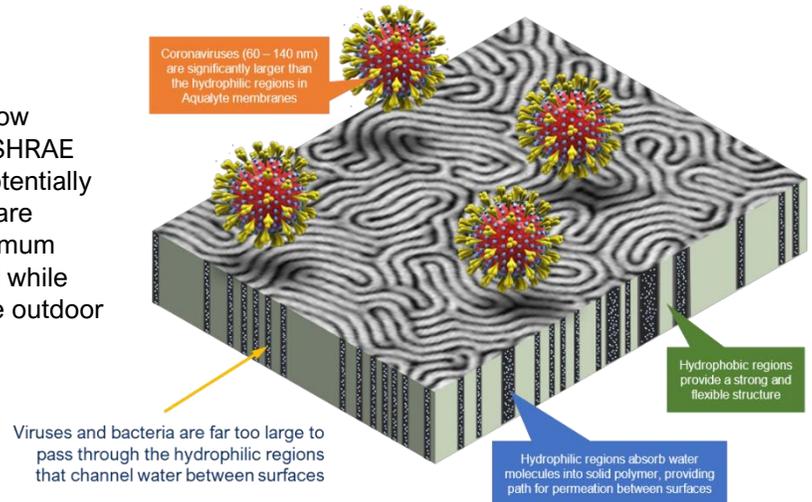
ConsERV provides a flexible energy recovery solution for you to meet your building requirements. Systems are available with a wide range of flows and options such as speed control, BACnet communication, motorized dampers, economizers, pre-heat, sensors, dirty filter sensors, and more.



Healthier Occupants

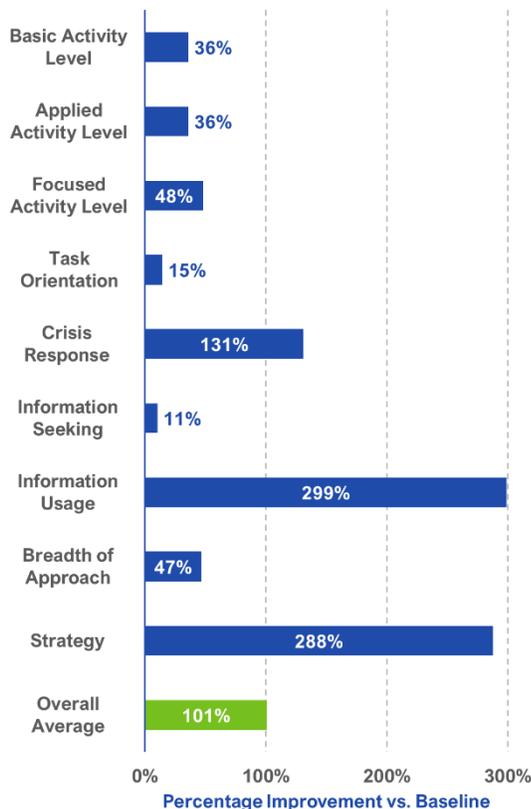
COVID-19 has changed our understanding of how buildings affect our health, and the CDC and ASHRAE recommend increasing ventilation to replace potentially dangerous microbes with clean air before they are inhaled by occupants. ConsERV provides maximum assurance that your fresh air is uncontaminated while reducing the energy penalty associated with the outdoor weather.

Independent ASTM F1671 testing shows that viruses do not cross the Aqualyte membrane, while ASTM E1053 testing confirms that **Aqualyte inactivates > 99.9% of human coronaviruses within 5 minutes of contact.** These properties ensure that dangerous viruses are exhausted without leaking back into your ventilation air and without establishing colonies on your materials.



Cognitive Improvement With Increased Fresh Air

vs. ASHRAE-Compliant Baseline Conditions



Smarter and More Productive

NIH supported research with the Harvard School of Public Health¹ has shown that increasing ventilation rates can **increase cognitive performance by an average of 101%** across a broad range of measures. Complex processes such as information usage and strategic thinking show the biggest leaps, with occupants testing almost 4X the baseline level.

ConsERV makes these increased ventilation rates practical. A well-designed building uses ConsERV to ensure that its occupants deliver better results and higher productivity.

¹Allen, Joseph G., Piers MacNaughton, Usha Satish, Suresh Santanam, Jose Vallarino, and John D. Spengler. 2015. "Associations of Cognitive Function Scores with Carbon Dioxide, Ventilation, and Volatile Organic Compound Exposures in Office Workers: A Controlled Exposure Study of Green and Conventional Office Environments." Environmental Health Perspectives 124 (6): 805-812. doi:10.1289/ehp.15110037. <http://nrs.harvard.edu/urn-3:HUL.InstRepos:27662232>



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