Industry Leading ERV Technology And Performance

Only From

ConsERV™

Eco-$mart, Inc.

TOLL FREE:(888)329-2705 FAX:(941)377-9460

info@eco-smart.com www.eco-smart.com

ConsERV™ Beyond Fresh Air. by DAIS

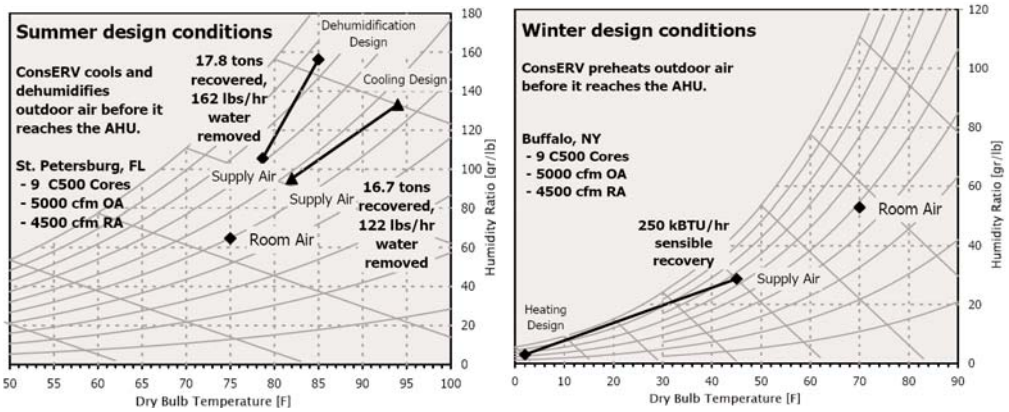
ConsERV™ Breaks Barriers In Efficiency, Effectiveness And Simplicity.

The ConsERV Energy Recovery Ventilator (ERV) delivers unparalleled performance while providing the required fresh air supply. ConsERV's patented fixed plate core performance is **AHRI certified** and **UL recognized**, and ConsERV systems are **ETL recognized**. Other benefits and advantages include:

- Sensible and **HIGH LATENT** transfer in a fixed plate ERV
- No moving parts to maintain or break
- Reduces operating costs – Saves energy
- Zero OA and RA cross flow leakage
- No parasitic energy loss
- No condensate - no need for drains
- Safely downsize HVAC equipment up to 33%
- Reduces humidity - lowering mold's growth potential
- ConsERV core is anti-microbial
- CO_2 emissions avoided - up to 2 lb/ton/hr
- Simple system maintenance
- Significant **ROI** benefit

ConsERV D Series Rooftop ERV System

Industry-Leading Effectiveness Saves Energy AND Money



By preconditioning the outside air entering the air handler, the patented ConsERV system *reduces ventilation costs* by an average of 30%. Plus, you can safely *downsize your equipment* by up to 1/3; lowering capital, installation, construction and on-going operating costs.

Specifying ConsERV in a regulation driven ventilation environment, will help meet building standards while offering a sustainable product that **reduces** the carbon footprint.

The ConsERV Strategic Advantages

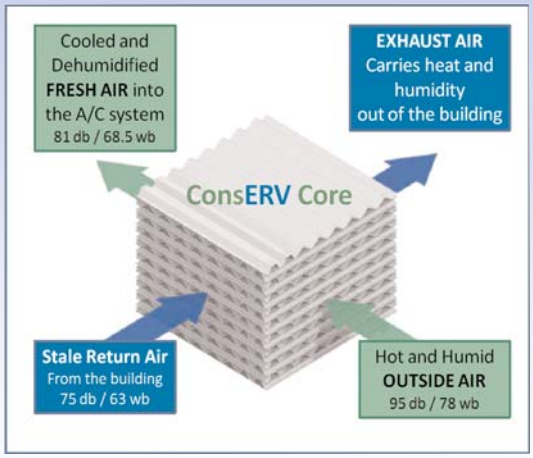
ConsERV vs. Enthalpy Wheels

ConsERV Enthalpy Core

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

ConsERV has no moving parts to maintain, while enthalpy wheels have bushings, bearings, seals, and belts as potential sources of equipment failure. ConsERV has minimal maintenance requirements: regularly change the pre-filters and occasionally vacuum the inlet surface of the core(s).

Unlike an enthalpy wheel, ConsERV requires no parasitic drive energy to provide its benefits. ConsERV performs continuously with any airflow: always with zero air stream cross contamination. This reliability allows the user to install smaller, less expensive air handlers for dramatic savings.



Proven Technology And Product In Real World Applications

ConsERV is proven to be a superior solution across a wide variety of applications with several thousand units installed worldwide in a wide range of sites (and climates). Installations include schools, universities, hospitals, surgical centers, museums, libraries, office buildings, manufacturing plants, retail spaces and hotels.

- Florida Power and Light, Florida
- Museum of Science and Industry, Florida
- Troy School, New York
- Berkshire Brewery, Massachusetts
- American Legion, South Dakota
- Norris School, Nebraska
- Patrick Air Force Base, Florida
- World of Coke Museum, Georgia
- Ministry of Construction, China
- Our Lady of Light Church, Florida
- Huron Ice Arena, South Dakota
- Forum de la Plaine, Montreal
- University of Tampa Dormitory, Florida
- Walmart (Multiple Locations)
- Walgreens (Multiple Locations)
- Eye Surgery Center, New Jersey
- Bowman Shopping Complex, Texas
- Umatilla Free Clinic, Florida
- Barton Mines, New York
- Hull American Bank, Ohio
- University of South Dakota Fine Arts Bldg
- Intersil Laboratory, Florida

Certified Performance

cores

Building Block To Environmental Efficiency

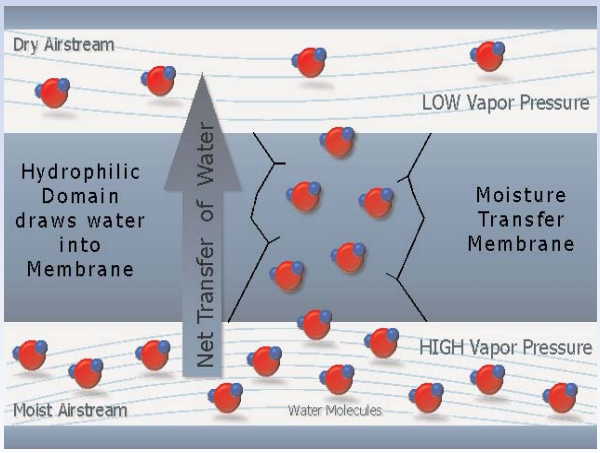
ConsERV can be a significant building block in constructing environmentally sound and energy sustainable structures. A ConsERV system can avoid producing CO_2 emissions - up to 2 lbs / ton / hour and contributes to the generation of **L**eadership in **E**nergy and **E**nvironmental **D**esign (LEED) credits. Be sure to check your local utility or government organizations for rebates for the installation of high performance HVAC equipment such as ConsERV.

"Adding a ConsERV unit to a project helps to ensure better Indoor Air Quality and Energy Efficiency without adding maintenance costs."

- Larry Hood, Senior Construction Manager

ConsERV vs. Other Fixed Plate Systems

ConsERV offers far superior AHRI certified effectiveness of total energy transfer than older fixed plate technology products. The HVAC system works more efficiently, saving energy while satisfying current and pending ASHRAE and government mandated Fresh Air requirements (ASHRAE 90.1, 62.1, 62.2, IEEC 2006). In addition, the ConsERV core has a ten year warranty.



ConsERV uses nanotechnology membrane to provide an exceptional total system effectiveness of greater than 65%. The ConsERV core is effective in both summer and winter conditions. Using building exhaust, ConsERV transfers heat and humidity into the fresh air stream during cold, dry winter conditions. It cools and removes moisture from the fresh air stream during hot, humid summertime periods. ConsERV works year round providing maximum energy savings and comfort.

ConsERV's design and performance advantages provide an optimum solution with average payback ranging from immediate (new projects with downsized HVAC equipment) to five years (retrofit projects).

From Small Light Industrial To Large Scale Commercial, ConsERV™ Has An ERV Solution To Meet Your Needs.

ConsERV™ provides a complete solution to meet your requirements – ranging from 50 cfm to 11,000 cfm in packaged units and custom packages available up to 35,000 cfm. ConsERV is the industry's best performing fixed plate ERV as determined by our growing list of customers, and independent industry validation (www.ahridirectory.org).

Application

Rooftop with Fans

ConsERV provides a complete range (350 cfm to 11,000 cfm) of rooftop fanned units with options that can run independent or connected to all air handlers. Options include motorized dampers, economizers, VFD's, pre-heat, cooling or heating coils, CO_2 sensors, temperature control, occupancy control, dirty filter sensor, air flow monitoring and more.

Indoor with Fans

ConsERV provides a complete range (350 cfm to 11,000 cfm) of indoor fanned units configured with options to connect to all air handlers. Options include VFDs, pre-heat, motorized dampers, gravity dampers, temperature control, occupancy control, dirty filter sensor, air flow monitoring and more.

Indoor without Fans

ConsERV provides a complete line of non-fanned units that can be integrated into projects having fan capacity available from existing separate fans. These units range from 350 cfm to 7,200 cfm and can be stacked to provide more than 28,800 cfm if required. These have the smallest ERV footprint and are great for renovation projects as they can easily fit in most existing equipment rooms.

Custom Units

Larger system requirements are addressed with multiple ConsERV systems, or the integration of ConsERV cores (or core cassettes) into custom built enclosures to meet these special project needs. Please call to discuss your project's requirements.

Residential

See our residential brochure for more information.

ConsERV™ Beyond Fresh Air. by DAIS

Distributed by:

Eco-$mart, Inc.

TOLL FREE:(888)329-2705

FAX:(941)377-9460

info@eco-smart.com

www.eco-smart.com