

RENEWAIRE ERVs

— THE FOUNDATION FOR NET-ZERO DESIGN —

WHY IAQ MATTERS IN NET-ZERO DESIGN

A key component to building net zero is a tight envelope. However, air-sealing and insulating techniques trap contaminants within the space. **Without proper ventilation, health, wellness, productivity and even cognitive function suffer.**

RenewAire ERVs replace stale indoor air with fresh and filtered outdoor air that's tempered with otherwise-wasted energy from the exhaust airstream, resulting in **optimized energy efficiency, net-zero attainment, enhanced IAQ and significant cost savings.**

NET-ZERO BUILDING DESIGN

SITE ENERGY GENERATION



A net-zero building produces at least as much renewable energy as it uses.

RenewAire ERVs support this effort by **reducing total HVAC loads**, resulting in decreased energy consumption and less energy needed to power the building.

HVAC DESIGN



HVAC designs should apply high-efficiency certified equipment or high-efficiency mechanical systems. **Energy-efficient RenewAire ERVs** decrease outdoor-air loads, thus reducing the size of air conditioning and heating equipment and boosting efficiencies.

TIGHT BUILDING ENVELOPE



A tight building envelope decreases internal load requirements impacted by outdoor climatic conditions; however, it also traps in contaminants, causing deficient IAQ. Ventilate with **RenewAire ERVs** to **save energy, enhance IAQ and improve wellbeing.**

VENTILATION



RenewAire ERVs passively precondition the outside air coming in with the otherwise-wasted sensible and latent energy of the exhaust air going out. This moderates temperatures and moisture, **decreases HVAC loads and equipment needs, drives operational efficiencies, conserves energy** and leads to major cost savings. Over 15 years, a conventional exhaust-only fan will cost \$60,840, whereas a RenewAire ERV will cost only \$21,000, saving you \$39,840 (65%) in energy costs.*

65%
REDUCTION
IN VENTILATION
ENERGY COSTS

VENTILATION
HEATING & COOLING
LOADS DROP 70%



**SPECIFY A RENEWAIRE ERV TODAY TO ACHIEVE NET ZERO,
ENHANCE IAQ AND SAVE MONEY**

*All data pertains to a RenewAire HE2XINH ERV when compared to conventional exhaust equipment at 1,500 CFM of OA in Minnesota using DX cooling and gas heat.
Future energy costs calculated based on current energy costs.



Read our white paper on
the NPV of a RenewAire ERV:
<http://bit.ly/2cXX9oB>



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