CORE Energy Recovery Exchangers are unique with a patented polymer membrane technology, creating a comfortable, healthy and energy-efficient indoor climate.
In order to adhere to stricter building codes and reduce heating and cooling costs, buildings are becoming more airtight. This can lead to poor indoor air quality and health problems such as asthma and allergies. CORE energy recovery exchangers help bring in healthy, fresh air while exhausting stale, contaminated air for a more comfortable environment.

**KEY FEATURES**

- Sensible & Latent Energy Recovery
- No Odor Crossover
- Low Maintenance
- Freeze Tolerant
- Water Washable
- No Drain Required
- Mold and Bacteria Resistant

**65-75% SRE**

Meets ASHRAE 90.1 with 65-75% sensible effectiveness across operating range

**<0.5% EATR**

Patented CORE polymer membrane AHRI 1060 certified to <0.5% crossover

**50-35,000 cfm**

Used in systems from 50-35,000 cfm and comes in sizes from 250mm to 1m

**+100,000 units**

Thoroughly tested and reliable with over 100,000 exchangers in the field

**Improving Life At Its CORE**

“It’s a breakthrough in technology. I actually have a [CORE] heat recovery unit in my own house.”

Managing Principle, INTEGRAL GROUP

“We now only specify the [CORE exchanger] for all our projects...The performance goes beyond expectations.”

Innovation Manager, Tridel
CORE FIXED PLATE ERVs ARE THE SMART CHOICE

Patented Polymer Membrane

Inside every CORE exchanger is our patented polymer membrane. This polymer membrane transfers both heat and humidity from one air stream to another, while blocking the transfer of odors, gases, VOC's and other contaminant compounds.

Homes with humidity levels that are too high or too low can lead to health problems caused by mold and bacteria growth, dust mites and viruses. CORE exchangers transfer both sensible and latent energy, which helps keep the humidity at an optimum level, improving the health and comfort of the home.

Energy Recovery Technologies Comparison Chart

<table>
<thead>
<tr>
<th></th>
<th>core</th>
<th>PAPER CORE</th>
<th>HRV CORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
<td>Polymer Membrane</td>
<td>Cellulose Membrane</td>
<td>Plastic or Aluminum</td>
</tr>
<tr>
<td>Latent Recovery</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>Water Washable</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Crossover (EATR)</td>
<td>0.5%</td>
<td>0.1%</td>
<td>0%</td>
</tr>
<tr>
<td>Anti-Microbial Protection</td>
<td>✓ ²</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Freeze Tolerant</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Moving Parts</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Flexible Size</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Total Effectiveness</td>
<td>57%</td>
<td>53%</td>
<td>30%</td>
</tr>
<tr>
<td>Pressure Drop</td>
<td>0.55&quot;</td>
<td>0.65&quot;</td>
<td>0.65&quot;</td>
</tr>
</tbody>
</table>

¹ AHRI 1060 Certified  ² Certified to ISO 846

Health & Comfort

Unlike paper cores, our exchangers are water washable and feature our patented CORE polymer membrane, which is mold and bacteria resistant, tested to ISO 846 with a rating of 0 for mold & bacteria growth.
<table>
<thead>
<tr>
<th><strong>System Used</strong></th>
<th><strong>Certification</strong></th>
<th><strong>ERV Efficiency</strong></th>
<th><strong>Specific Fan Power</strong></th>
<th><strong>Airflow</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Central AHU</td>
<td>LEED Gold</td>
<td>63% Sensible/42% Latent</td>
<td>108 Watts/CFM</td>
<td>19,000 CFM (76 CFM/Suite)</td>
</tr>
<tr>
<td>In-Suite Fan Coil with ERV</td>
<td>LEED-ND Silver</td>
<td>69% Sensible/49% Latent</td>
<td>086 Watts/CFM</td>
<td>363 Suites @ 75 CFM/ERV</td>
</tr>
<tr>
<td>In-Suite ERV</td>
<td>LEED Gold</td>
<td>67% Sensible/42% Latent</td>
<td>032 Watts/cfm</td>
<td>388 Suites @ 85 CFM/ERV</td>
</tr>
</tbody>
</table>

### Lower Capital Costs
Lower initial capital costs due to less equipment to install.

### Easier Access
A single rooftop unit means easier access for maintenance.

### Fewer Bulkheads & Penetrations
Lack of insuite equipment means fewer bulkheads and penetrations.

### More Control
Suite owners have more control over ventilation.

### Less Odor Crossover
Less odor crossover between suites.

### More Floor Space to Sell
Less ductwork means more floor space to sell.

### Lower Specific Fanpower
Shorter duct runs mean lower specific fanpower.

### No Need for Fire Damper
No air circulation between suites means fire dampers are not required.