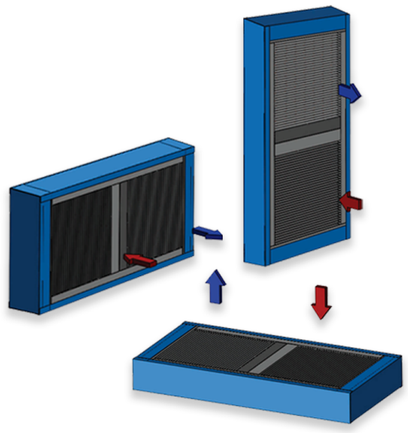
# HOW DO THEY STACK UP?

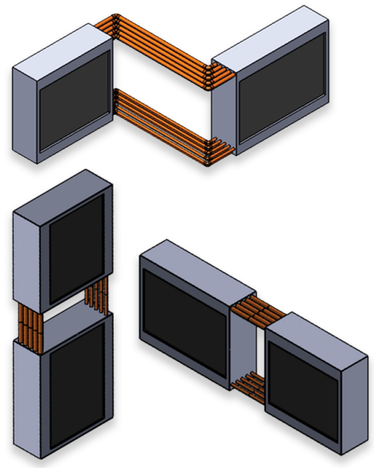
## LEARN HOW ENERGY RECOVERY WHEELS COMPARE TO ACT'S AIR-TO-AIR HEAT PIPE HEAT EXCHANGER PRODUCTS

Know what your options are before making a design decision on a new energy recovery system. Take into consideration the updated ASHRE 90.1 clean air requirements as well as maintenance costs and lifetime cost of ownership.

**ENERGY WHEEL**



**AIR-TO-AIR HEAT EXCHANGER**



**SPLIT LOOP THERMOSYPHON AAHX**

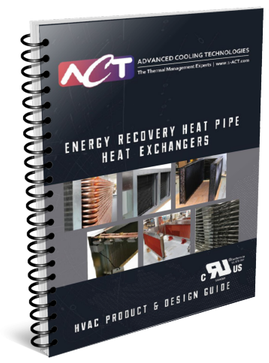
| | | | |
|---|---|---|---|
| **NO CROSS-AIR CONTAMINATION**<br>Prevents contaminants in the exhaust airstream from crossing over into the adjacent supply airstream | ✗ Not Possible as airstreams are not separated | ✓ | ✓ |
| **ENERGY RECOVERY** | Sensible/Latent | Sensible | Sensible |
| **UNIT COST COMPARISON** | $ | $$ | $$$ |
| **LIFETIME OWNERSHIP COST**<br>Maintenance costs involving motors, drive belts, bearings and heat transfer medium | $$$ | $0 Passive AAHX are maintenance free | $0 Passive AAHX are maintenance free |
| **NO ASPECT RATIO LIMITS**<br>Systems can be designed with asymmetrical fin lengths and the supply air and exhaust air tunnels can be widely separated | ✗ | ✓ | ✓ |

## INSTALLATION CONFIGURATIONS

| | | | |
|---|---|---|---|
| Variable Distances Between Exhaust Air & Supply Air Streams | ✗ Must be Side-by-Side | ✓ Up to 12" separation | ✓ |
| Exhaust Air & Supply Air Streams Can be Separated Horizontally | ✗ Not Possible | ✓ Up to 12" separation | ✓ |
| Exhaust Air & Supply Air Streams Can be Separated Vertically | ✗ Not Possible | ✓ Single Season | ✓ |
| Limitations Size (CFMs) | ✗ Not Possible | ✓ Coil Size Only Limitation | ✓ Coil Size Only Limitation |

SELECTION TOOL

RESOURCES




ADVANCED COOLING TECHNOLOGIES
The Thermal Management Experts | www.1-ACT.com