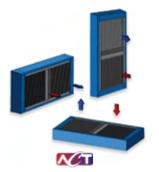
# **HEAT RECOVERY WHEELS: HOW DO THEY STACK UP?**

COMPARE POWERED HEAT RECOVERY WHEELS TO ACT'S PASSIVE AIR-TO-AIR HEAT PIPE HEAT EXCHANGERS (AAHX)

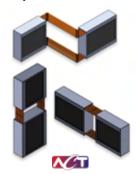
Know what your options are before making a design decision on a new Heat Recovery System. Take into consideration the ASHRAE 62.1 and 2 indoor air quality clean air requirements, as well as maintenance costs and lifetime cost of ownership and operation.



**HEAT RECOVERY** WHEEL



PASSIVE HEAT PIPE SIDE-BY-SIDE **HEAT EXCHANGER** 



PASSIVE SPLIT LOOP **THERMOSYPHON HEAT EXCHANGER** 

#### NO CROSS AIR CONTAMINATION

Prevents contaminants in the exhaust airstream from crossing over into the adjacent supply airstream



#### **ENERGY RECOVERY**

UNIT COST COMPARISON

Sensible/Latent

Sensible

Sensible





### LIFETIME OWNERSHIP COST

Maintenance costs involving motors, drive belts, bearings and heat transfer medium



Passive AAHX are maintenance free

Passive AAHX are maintenance free

#### EXPECTED OPERATIONAL LIFE

Based on field interviews and observations with facilities maintenance staff

#### 5-7 Years

Must be Side-by-Side

Not Possible

15+ Years (Life of the Air Handler)

#### 15+ Years (Life of the Air Handler)

## INSTALLATION CONFIGURATION

Variable distances between exhaust air & supply streams

Exhaust air & supply streams can be separated horizontally

Exhaust air & supply streams can be separated vertically



Not Possible



Up to 30'

<100,000 CFMs Limitations in size (CFMs)

>100,000 CFM Coil Size Only Limitation

>100,000 CFM Coil Size Only Limitation

Optionally, ACT's fully pumped systems can reach up to 300' of separation.



Click for the HVAC Brochure

Click for the AAHX Selection Tool

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