HEAT PIPE TECHNOLOGY

advanced energy reco very and dehumidi fication

THE HRM-V ™ SPLIT PA SSIVE HEA T PIPES

utilizing heat pipe heat e xchangers

when side-by -side reco very is not possible

laboratories
sports comple xes
medical buildings
manufacturing
educational f acilities
data centers

The HRM-V ™ Split Passi ve Series of energy rec ove r y heat pipes are compact and highly ef ficient heat transfer devices. They are used to recov er energy in process applications and from exhaust air to pre-cool or pre-heat outside air in comfort applications without the risk of cross-cont amination.

AHRI CERTIFIED®
www.ahridirectory.org
Air-to-Air ERV
AHRI Standard 1060
Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

heatpipe.com

The HRM-V™ Split Passive Heat Pipes By Heat Pipe Technology

utilizing heat pipe heat exchangers

This unique design is intended for applications where two air streams are not in close proximity, either to prevent contamination of the supply air by the exhaust air, or other design consideration.

This technology gives the design engineer a lot of flexibility and more importantly a ZERO cross contamination system. And, compared to average water run arounds, it comes with higher effectiveness, no moving parts (except for dampers in the DSO™ option), and better efficiency. A typical system comprises 3 circuits, each circuit has a vapor header at the top end and a liquid header at the bottom. With a fixed elevational difference between supply and exhaust air streams, system can be optimized for the season that yields the most BTUs. In Minneapolis, for example, the system would be optimized to recover heating. Control valves are usually added and located on the liquid side of each circuit. When open, full recovery is taking place, when shut, no recovery is taking place. This would be utilized during economizer conditions and in extreme climates to prevent frosting on the exhaust coils.

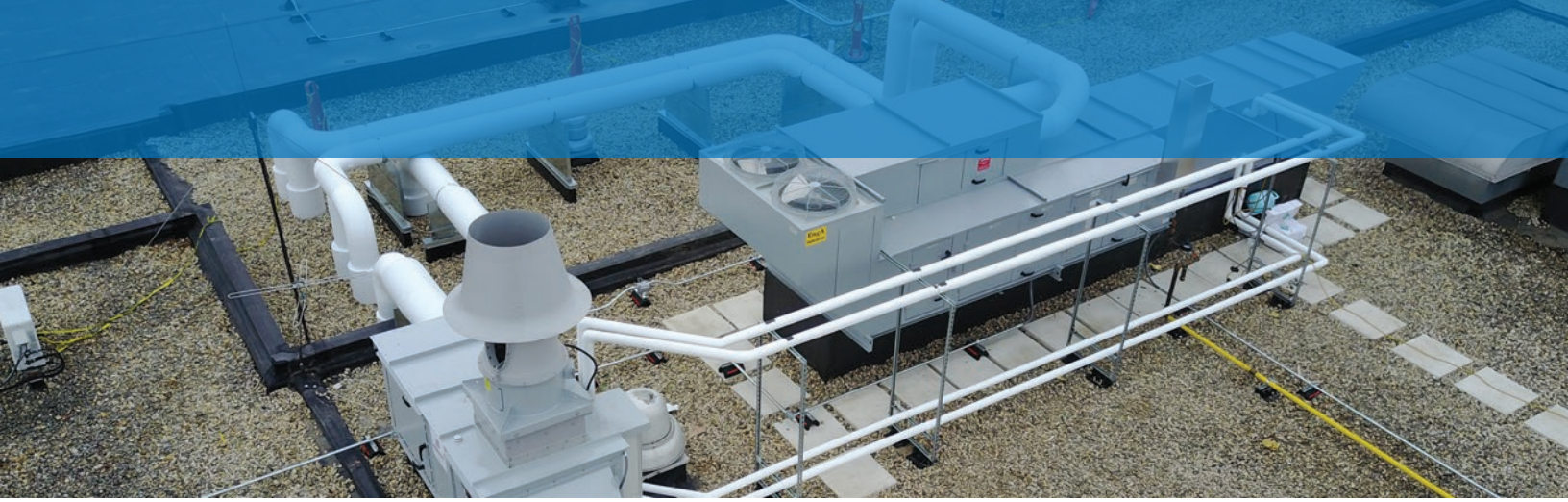
When supply and exhaust coils are on the same level, and summer as well as winter recovery are equally important, an HRM-V with a Dynamic Seasonal Offset (DSO™) system is utilized (see diagram on the following page). This system will yield equal cool and heat recovery with 45% effectiveness on average. Optimized performance is achieved by using integral face dampers to direct flow through sections of the heat pipes to create an offset effect, thus enhancing performance.

Typical Applications include laboratories, healthcare facilities, industrial processes etc.

the no cross-contamination solution

- ZERO cross contamination
- Multiple circuits for improved performance
- Dimensional flexibility in height and length
- Dynamic Seasonal Offset (DSO™) option for equal summer/winter recovery
- Can be optimized to recover the most BTUs
- Optional control valves for economizer mode and to avoid frosting
- Five year limited warranty is offered on the heat exchangers
- AHRI 1060 certified and ETL listed to UL 207 and CSA STD C22.2

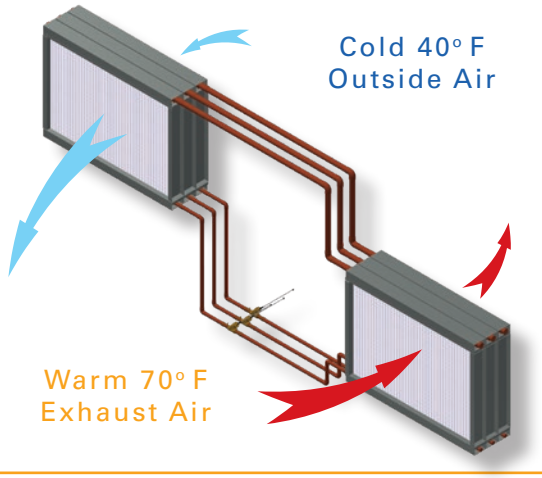
Up to 120 linear feet of supply/exhaust separation

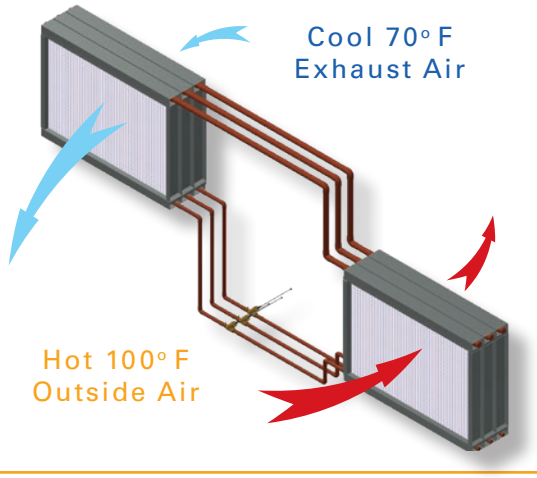


Optimized for Winter Recovery

when cooler outside air intake is above warmer exhaust air

- Comfort heating with some cooling
- Process cooling or outside air preheat
- Data center free cooling





Optimized for Summer Recovery

when warmer outside air intake is below cooler exhaust air

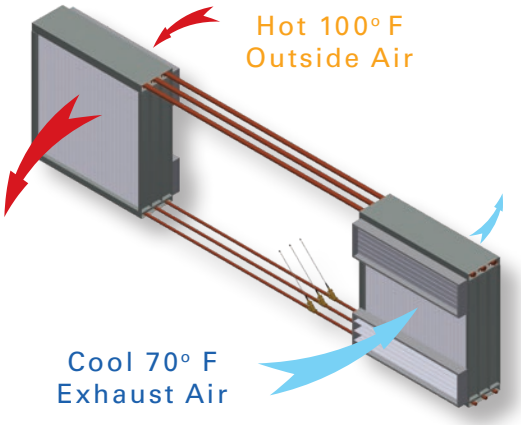
- Comfort cooling with some winter heating
- Process air precooling

Winter/Summer Recovery

with Dynamic Seasonal Offset (DSO™)

when outside air intake is on the same level as exhaust air

- Summer/Winter peak load reduction
- Process cooling/heating
- Outside air precool or preheat



Call us for details 1 (800) 393-3464

The HRM-V™ Split Passive Heat Pipes By Heat Pipe Technology

utilizing heat pipe heat exchangers

- Copper tubes and aluminum fins
- 10 & 12 fpi spacing
- 2, 4 and 6 rows
- Optional corrosion protective coatings
- Optional stainless steel casings
- Controllable
- Cost effective
- Check with factory for other options

Providing cross-contamination free solutions for:

- laboratories
- sports complexes
- medical buildings
- manufacturing
- educational facilities
- data centers

HEAT PIPE TECHNOLOGY™

advanced energy recovery and dehumidification

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RECOGNIZED COMPONENT
ETL LISTED c US
Intertek 5010058

CONFORMS TO UL STD 207
CERTIFIED TO CSA STD C22.2 # 140.3

AHRI MEMBER