

HEAT PIPE TECHNOLOGY

a subsidiary of MiTek® • a Berkshire Hathaway company
advanced energy recovery and dehumidification



THE HRM SERIES PASSIVE ENERGY RECOVERY SYSTEM utilizing heat pipe heat exchangers

with no cross contamination

- hospitals
- laboratories
- medical buildings
- manufacturing
- clean rooms
- data centers

The HRM Series of energy recovery heat pipes are passive, compact, and highly efficient heat transfer devices. They are used to recover energy from exhaust air to pre-cool or pre-heat outside air in comfort or process applications.

The HRM Series

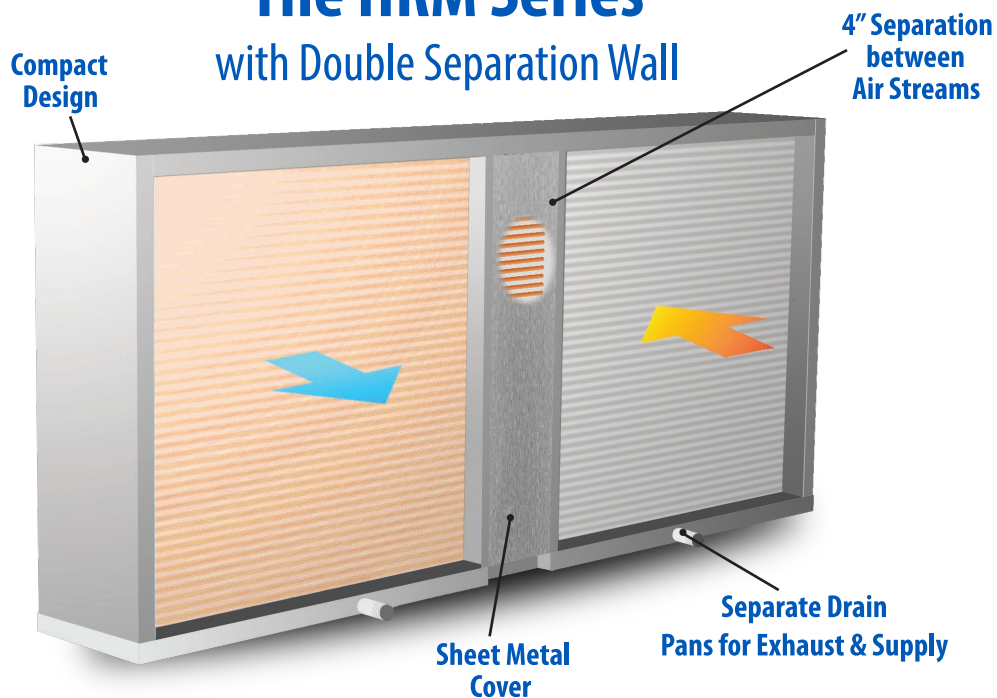
Utilizing Passive Heat Pipe Heat Exchangers

State of the art heat exchangers based on the **Heat Loop** by Heat Pipe Technology are opening doors to new applications with low air pressure drop, compact design, high effectiveness, and trouble-free static installation.

The **Heat Loop** is a breakthrough in multi-row heat pipe design, where the “pumping” of the working fluid is achieved not only by the differences of temperature between the two air streams, but also by the temperature differential between rows in the same air stream. The **Heat Loop** can transfer more mass of working fluid while using the same tubing diameter resulting in higher heat transfer capacities.

The No Cross Contamination Solution...

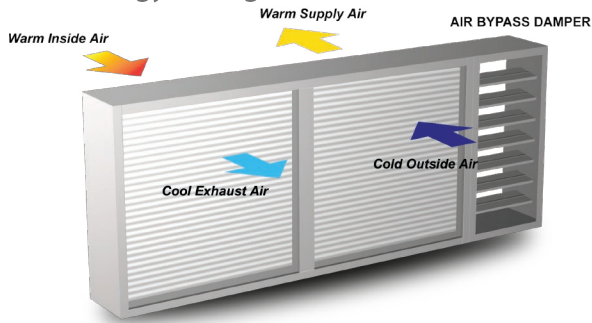
The HRM Series with Double Separation Wall



- No moving parts...years of uninterrupted energy savings
- Made with high quality copper tubes for reliability and longevity
- Separate liquid and vapor lines for maximum heat transfer effectiveness
- No tilting or mechanical seasonal changeover necessary
- Solid partition between air streams for no cross contamination
- Most compact design

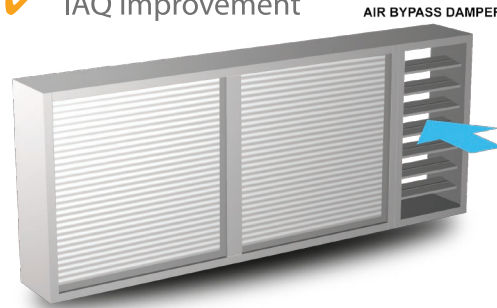
Winter Heat Recovery Using Air Bypass for Defrost:

- ✓ Defrost mode in very cold climates
- ✓ Precise temperature delivery control
- ✓ Energy savings



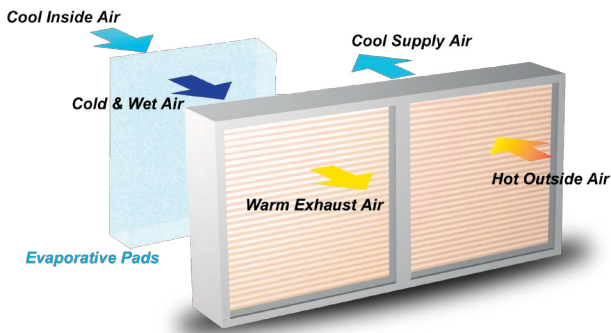
For Moderate Seasons:

- ✓ Economizer mode... avoids unnecessary static pressure loss
- ✓ Temperature control
- ✓ IAQ improvement



Summer Cooling Recovery:

- ✓ Markedly enhanced performance with direct and indirect evaporative cooling
- ✓ Energy savings



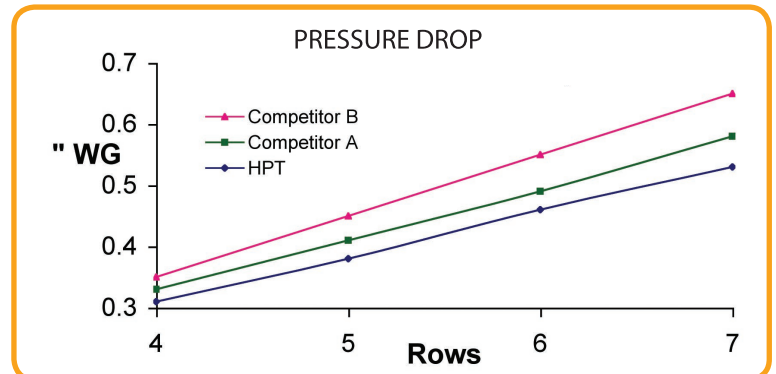
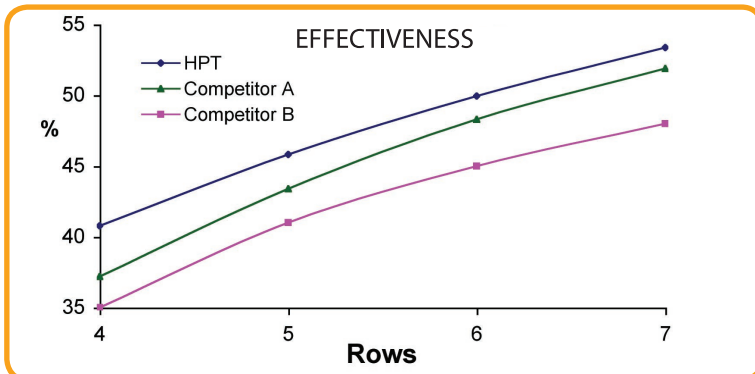
In a northern hospital, the estimated savings for this system were just under **\$12,000 a year**, resulting in a simple payback in under **2 years!**

The HRM Series Can Earn You LEED Points!

- ◆ Energy and Atmosphere... **Max points 17**
- ◆ Indoor Environment Quality ... **Max points 15**
- ◆ Innovation and Design ... **Max points 5**



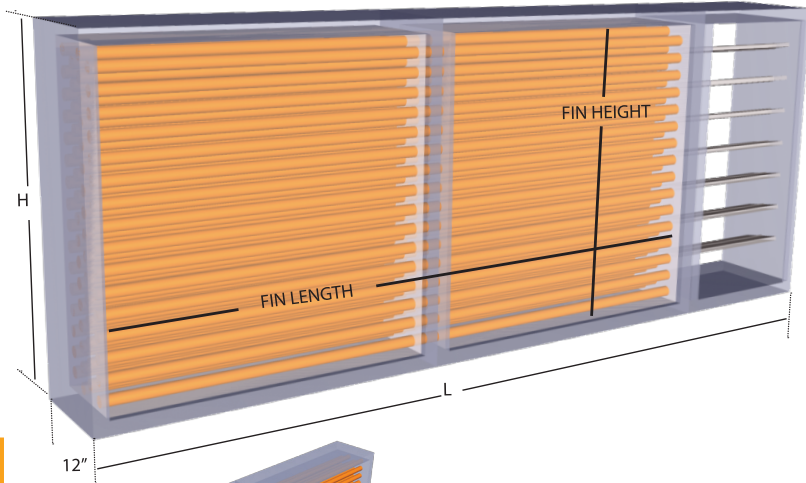
The HRM SERIES vs. THE COMPETITION



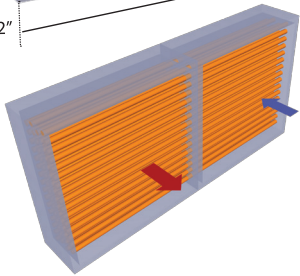
The HRM Series

by Heat Pipe Technology

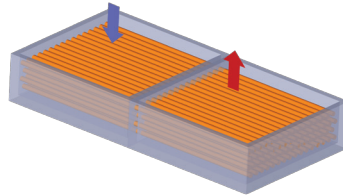
with no cross contamination



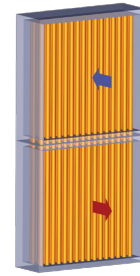
- 1,000 to 50,000 cfm systems
- Copper or aluminum fins
- 8 to 14 fpi spacing
- Standard and custom dimensions
- Corrosion protective coatings
- Galvanized or stainless steel casings
- Drain pans
- Flange connections
- Dampers and actuators
- HFC heat transfer fluid



A. Side-by-side horizontal air streams with heat pipes in a vertical plane.



B. Side-by-side vertical air streams with heat pipes in a horizontal plane.



C. Over-and-under horizontal air streams with heat pipes in vertical plane.

The HRM Series is cost efficient and provides no cross contamination at facilities like these:



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