



The **HRM-P™** Pump-Assisted Split Heat Recovery Systems *UTILIZING HEAT PIPE EXCHANGERS*



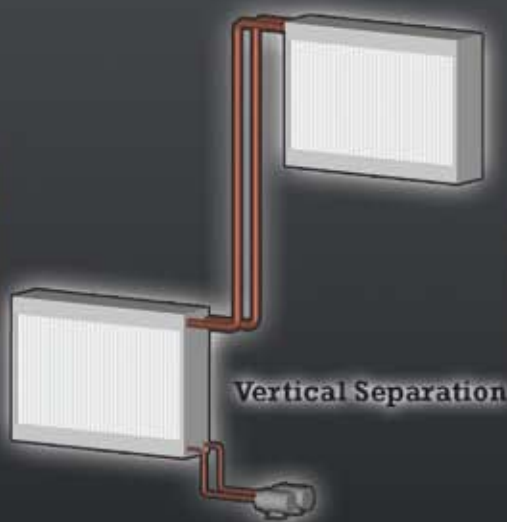
Heat Pipe Technology, Inc.

ADVANCED DEHUMIDIFICATION & ENERGY RECOVERY

The **HRM-P™** Pump Assisted Split Heat Recovery Systems *UTILIZING HEAT PIPE EXCHANGERS*



Medical Buildings



Laboratories

The **HRM-P™** Split Pump-Assisted Energy Recovery Heat Pipe Systems are compact and highly efficient heat transfer devices. They are used to recover energy in process applications and from exhaust air to pre-cool or pre-heat outside air in comfort applications.

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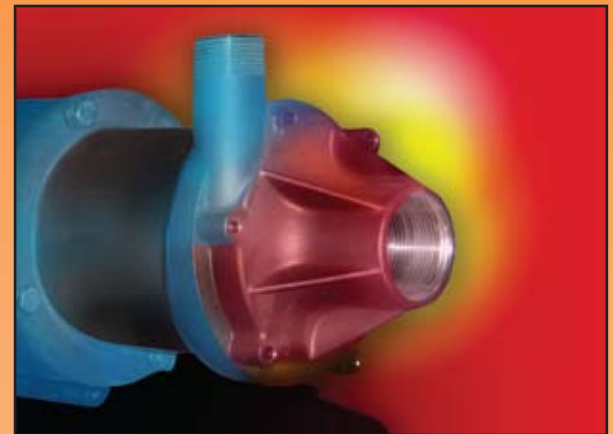
Quite often make up air and exhaust air are separated to accommodate various mechanical systems, building structure or simply to avoid cross contamination. Unfortunately, this limited the options of energy recovery to the inherently inefficient water glycol systems.



Heat Pipe Technology's split pump-assisted systems have now given the design engineers a host of options and flexibility that were not previously available. Pump-assisted systems extend the range of the recovery and make it year round. This is accomplished through the use of multiple circuits and small fractional-horse power pumps. The pumps are low maintenance, leak-proof, seal-less magnetically driven pumps.

“Pumping 28.5 gpm of working fluid transfers as many BTUs as 300 gpm of water-glycol systems.”

The pumps are designed to carry the working fluid from the lower heat pipe section to the higher one without raising pressure, essentially a low pressure liquid delivery system. Superior to water-glycol loops, these heat pipe systems take advantage of phase change process to transfer the maximum amount of energy using small fractional HP pumps. With 30% or better heat recovery effectiveness than glycol systems, and 50-70% better overall system energy efficiency, the pump-assisted heat pipes have become the system of choice for heat recovery in most split applications such as laboratories, industrial facilities, hospitals, sports complexes and other facilities that cannot tolerate cross contamination between exhaust and supply air streams.



FEATURES & BENEFITS:

- ★ Single or two-season recovery
- ★ 50% to 70% higher system energy efficiency than pumped glycol systems
- ★ High Recovery Efficiency Ratio (RER*) means higher net savings
- ★ Lowest air pressure drop
- ★ Factory start-up to insure compliance and trouble-free installation
- ★ Environmentally friendly refrigerants for working fluids
- ★ Five year heat exchanger warranty
- ★ Applicable to new construction and retrofit applications

*RER as defined by AHRI Guideline V para 6.1

A Wealth of Experience in Innovative Technology

HPT, Inc has been pioneering the design and applications of heat pipe systems in energy recovery for over 25 years, supplying thousands of energy recovery systems to HVAC and process end users.

The HRM-P™ Pump-Assisted Split Heat Recovery Systems can earn you LEED™ points!



Energy and Atmosphere Prerequisite 2
Minimum Energy Performance



Energy and Atmosphere
EA credit 1

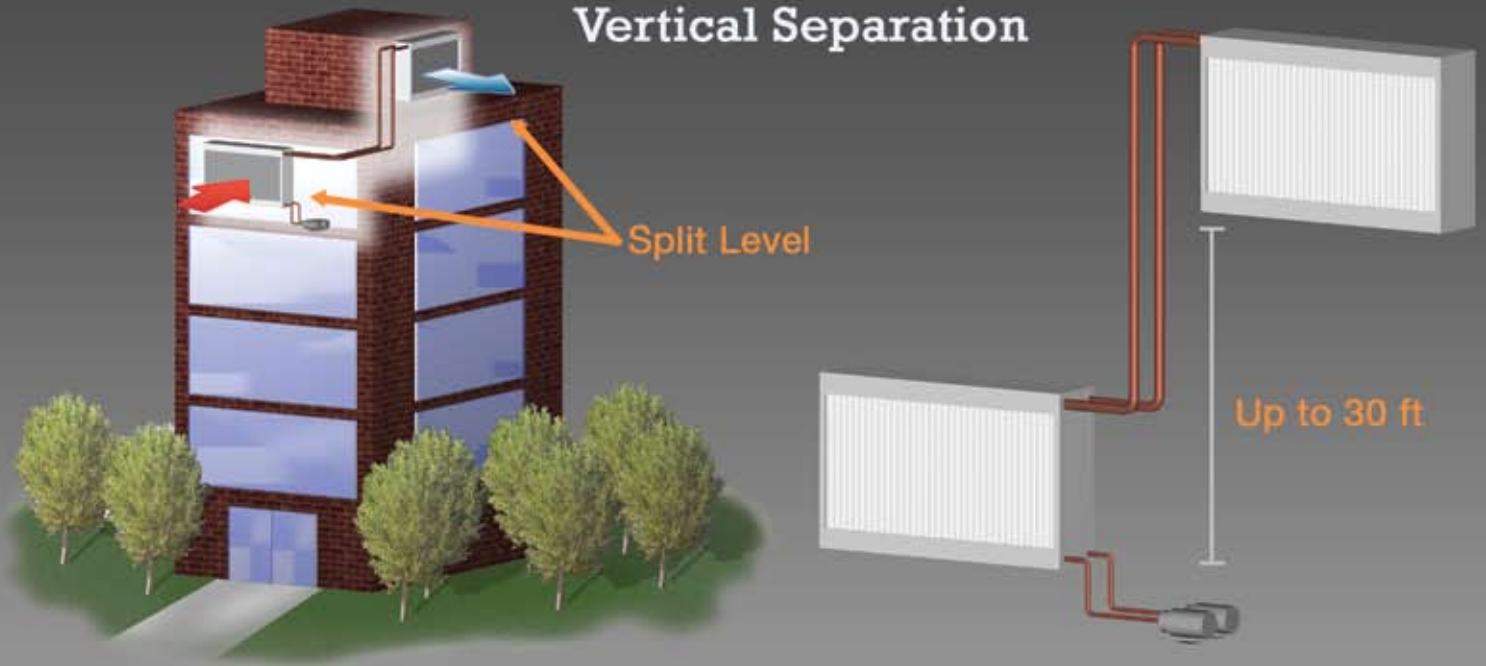


Energy and Atmosphere Prerequisite 3
Fundamental Refrigerant Management



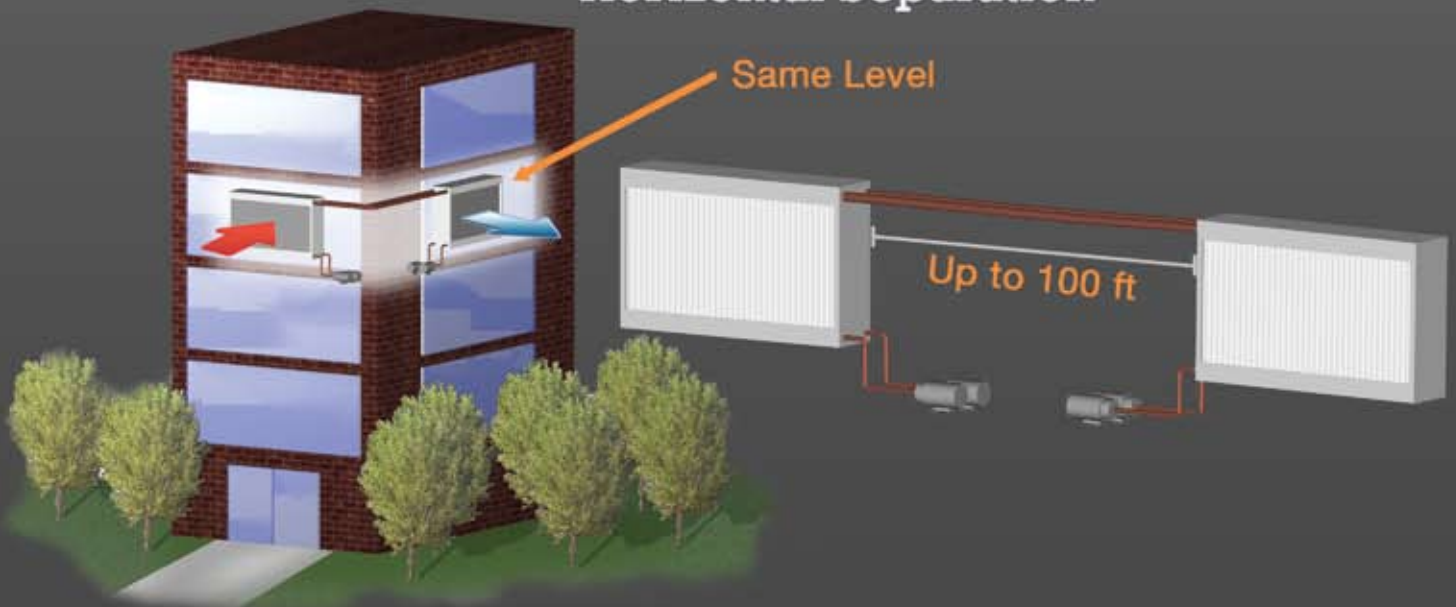
Innovation and Design
ID credit 1

Vertical Separation



Multiple System Safeguards To Insure Continuous Trouble-free System Operation.

Horizontal Separation



The HRM-P™ Pump-Assisted Split Heat Recovery Systems UTILIZING HEAT PIPE EXCHANGERS



- ★ Up to 60,000 cfm per system
- ★ Multiple circuits for redundancy, controllability and frost protection
- ★ Copper tubes, aluminum or copper fins
- ★ Corrosion- protective coatings
- ★ Flexible dimensions
- ★ 2,4, 6 , 8 row systems for maximum recovery
- ★ Comfort or process applications
- ★ Indirect evap. cooling IDEC for enhanced performance
- ★ Stainless steel 304 or 316 casings available

The HRM-P™ Split Pump-Assisted *Series* are cost efficient and provide zero cross contamination at these facilities.

Hospitals



Laboratories



Educational Facilities



Sports Complex



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GOING GREEN WITH LEED™

Ask us how the HRM-P™ can assist your project with LEED™ certification?



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