



SOLUTIONS

Tips for Enhancing Heat Pipe Design

June 2015 - In This Issue:

**White Paper - Indirect
Evaporative Cooling with Heat
Pipes**

**Design Strategy - Enhancing
Energy Recovery with Indirect
Evaporative Cooling**

**Case Study Video - University of
South Florida**



**Providing energy
savings solutions
to the world market**

Our knowledgeable, worldwide rep network will work with you to implement our technology for both dehumidification and energy recovery

**White Paper - Indirect
Evaporative Cooling (IEC)
with Heat Pipes**

applications.

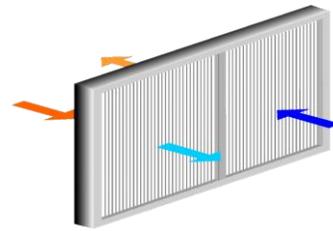
Find a representative in your area.



"SelectPlus is cloud-based, so our affiliated professionals can access extraordinary engineering and design capabilities through any internet connection." - HPT's Mazen Awad

This newsletter is a service of HPT, Inc. It is meant to familiarize users with our technology and design software SelectPlus™.

Heat Pipes for Energy Recovery (HRM), in combination with IEC increases the overall effectiveness of the system. This is

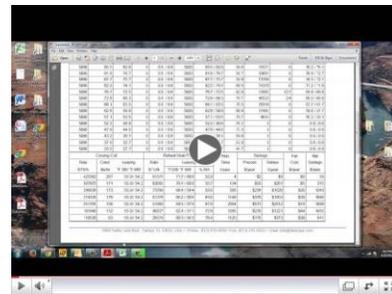


done when water is introduced into the exhaust air stream during a summer condition. The water evaporates adiabatically, which in turn reduces the dry bulb temperature and enthalpy, while dew point remains the same. The larger temperature difference results in an increase in BTUH transfer. [Click here to download and read more](#)

Design Strategy - Enhancing Energy Recovery with Indirect Evaporative Cooling (IEC)

This video will walk users through how to design a side by side energy recovery heat pipe (HRM) on SelectPlus™ with indirect evaporative cooling.

This design strategy discusses how to select the HRM with IEC at peak cooling load conditions. It also discusses the savings benefits that



can be modeled using the advanced economic analysis feature on SelectPlus™. This strategy will increase the overall system effectiveness and RER (Recovery Efficiency Ratio) at various summer conditions. [Click here or video image to view](#)

Case Study Video - University of South Florida Slashes Energy Costs While Maintaining Lower Humidity

HPT partnered with the University of South Florida to address potential savings opportunities in regards to maintaining good Indoor Air Quality (IAQ). The solution centered around the wrap around heat pipe (DHP). This technology uses a phase change to precool the outside air before entering the cooling coil, and reheat the air after the cooling coil. This in turn reduced the load on the cooling coil and reduced the energy required for a separate reheat system. [Click here to view video](#)
To view a text version of this case study: [Click here to download](#)



Want to learn more about our technology? [Visit our website](#)

Have an idea for a SelectPlus topic you would like to see? [Send us an email](#)

Not a SelectPlus User? [Click here](#)