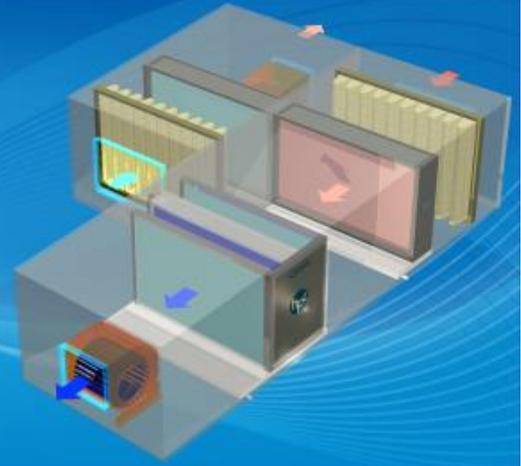




SOLUTIONS

*Tips for Enhancing
Heat Pipe Design*



March 2016 - In This Issue:

***NEW* Case Study: Major Tampa Hospital**

.....
**Recently Shipped - HPT Retrofits
Three Large Factory-Installed
Wrap-Around Heat Pipes**

.....
***Upcoming* Webinar - The
Wonderful World of Heat Pipes**

.....
**SelectPlus - How to Share Your
Projects**



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

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***NEW* Case Study: Major Tampa Hospital Enhances Operating Room Cooling Systems With Controllable Wrap-Around Heat Pipes**



This newsletter is a service of HPT, Inc. It is meant to familiarize users with heat pipe technology, and how to select heat pipe systems using SelectPlus™ design software.



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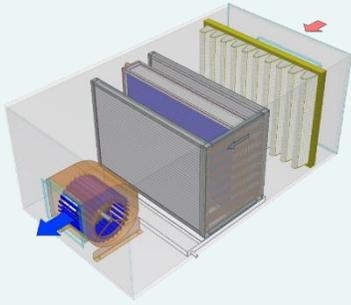
A major hospital in the Tampa Bay area recently added OR & IR additions to their facilities. During the design phase, the hospital looked for ways to implement the latest energy savings technologies to allow for accurate control, achieve lower dew points, in addition to lowering their overall operating costs.

HPT presented a solution centered around the controllable wrap around dehumidification heat pipe (DHP-C). 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 freed up capacity for the cooling coil to allow for a lower dew point, as well as reducing the energy required for reheat.

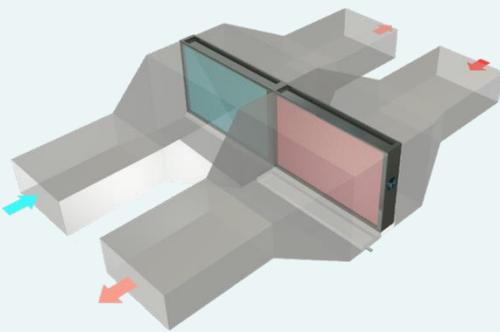
These systems were also equipped with normally open solenoid valves on every circuit. This allowed for the heat pipe to be sized to provide the desired reheat the majority of the year. At peak design temperatures, the valves could be staged off to accurately control the amount of reheat.

Two AHUs sized to deliver 36,000 CFM, utilized a 2 row controllable wrap around heat pipe. This in turn reduced the cooling load by 20% and provided 7 F of free reheat!

Recently Shipped - HPT Retrofits Three Large Factory Installed Wrap-Around Heat Pipes to a Multinational Consumer Goods Company



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Unilever is a British-Dutch consumer goods company, with products that include food, beverage, cleaning agents and personal care products. Currently, they are ranked the 3rd largest consumer goods company in the world. This project was part of the \$99 million capital investment in the Independence, MO facility. The Independence facility processes wet foods, which includes major brand names from around the country.

Jeff Dollar, an HPT representative with ElitAire came across this opportunity as the facility had critical humidity level requirements. He worked with an engineer in which multiple iterations were completed with the wrap-around heat pipe. The alternative solution was using a dedicated OA unit with liquid desiccant, which became too costly when compared to the heat pipe solution. In addition, the ease of maintenance with the wrap-around heat pipe was also a major benefit for the customer.

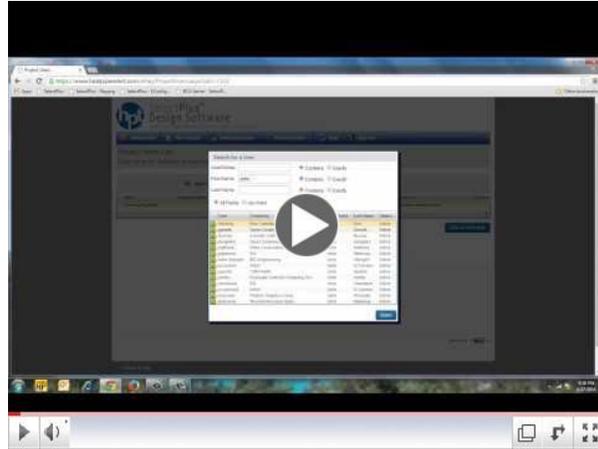
These heat pipes were factory-installed into three (3) large custom AHU's totaling 109,000 CFM. These AHU's serviced the salad dressing and processing lines of the facility. A 4-Row wrap-around heat pipe was used to achieve the humidity level requirements of the space. The economic analysis showed an estimated annual savings of \$111,840 per year with a payback period of around 2 years!

***Upcoming* Webinar - The Wonderful World of Heat Pipes And How They Can Be Effectively Utilized to Meet Energy Code**

Please keep a lookout for an upcoming invitation next week to our next in the series of Wonderful World of Heat Pipe webinars. On April 28th, we'll specifically cover ASHRAE Standard 90.1 energy code and how heat pipes can most effectively be utilized to meet its requirements. You won't want to miss it! PDH certificates shall be available upon request.



SelectPlus™ - How to Share Your Project With Any SelectPlus™ User



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SelectPlus™ allows you to share projects with other users within the user database. Permission levels range from read only access to project administrator. This allows for seamless interaction between your colleagues, HPT representatives, and the factory.

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