

HEAT PIPE TECHNOLOGY

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



CONTROLLABLE

DHP™ WRAP-AROUND DEHUMIDIFIER HEAT PIPE SYSTEMS utilizing heat pipe heat exchangers

solving high humidity problems while saving energy

pharmaceuticals

hospitals

hotels

libraries

museums

military facilities

schools

laboratories

data centers

arenas

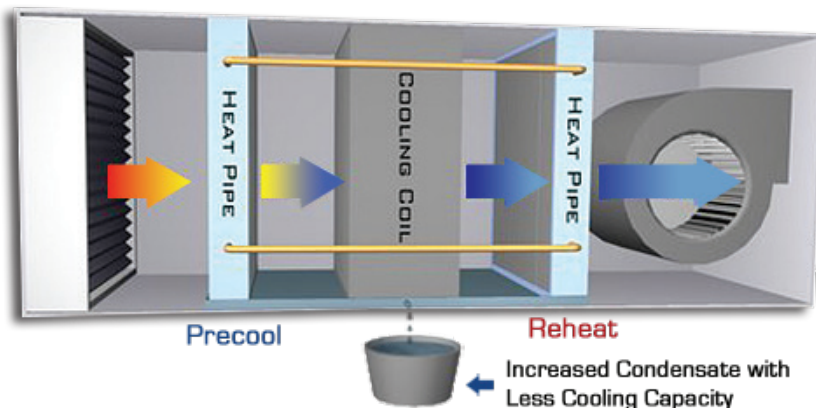
DHP Wrap Around Dehumidifier heat pipes are compact and highly efficient heat transfer devices designed to provide both pre-cooling and reheat in applications where both the temperature and humidity must meet requirements as well as solve high humidity problems.

The Most Cost Effective Method of Dehumidification

What are HPT Dehumidifier Heat Pipes?

HPT Dehumidifier Heat Pipes are thermal transfer devices capable of moving large amounts of heat from the return air stream to the supply air stream of any AC system. Because heat pipes move heat with a process of vaporization and condensation, no mechanical parts or energy is needed.

HPT Dehumidifier Heat Pipes consist of two sections. The first section is placed in the incoming air stream before the AC cooling coil. When warm air passes over the first section, the liquid refrigerant vaporizes, moving heat to the second section, placed downstream from the cooling coil. Because heat has been removed from the air before entering the evaporator coil, air passing through the cooling coil drops to a lower temperature, resulting in more moisture removal. The overcooled air is then reheated to the desired temperature and a lower relative humidity by the second section, using the same heat originally absorbed by the first section.

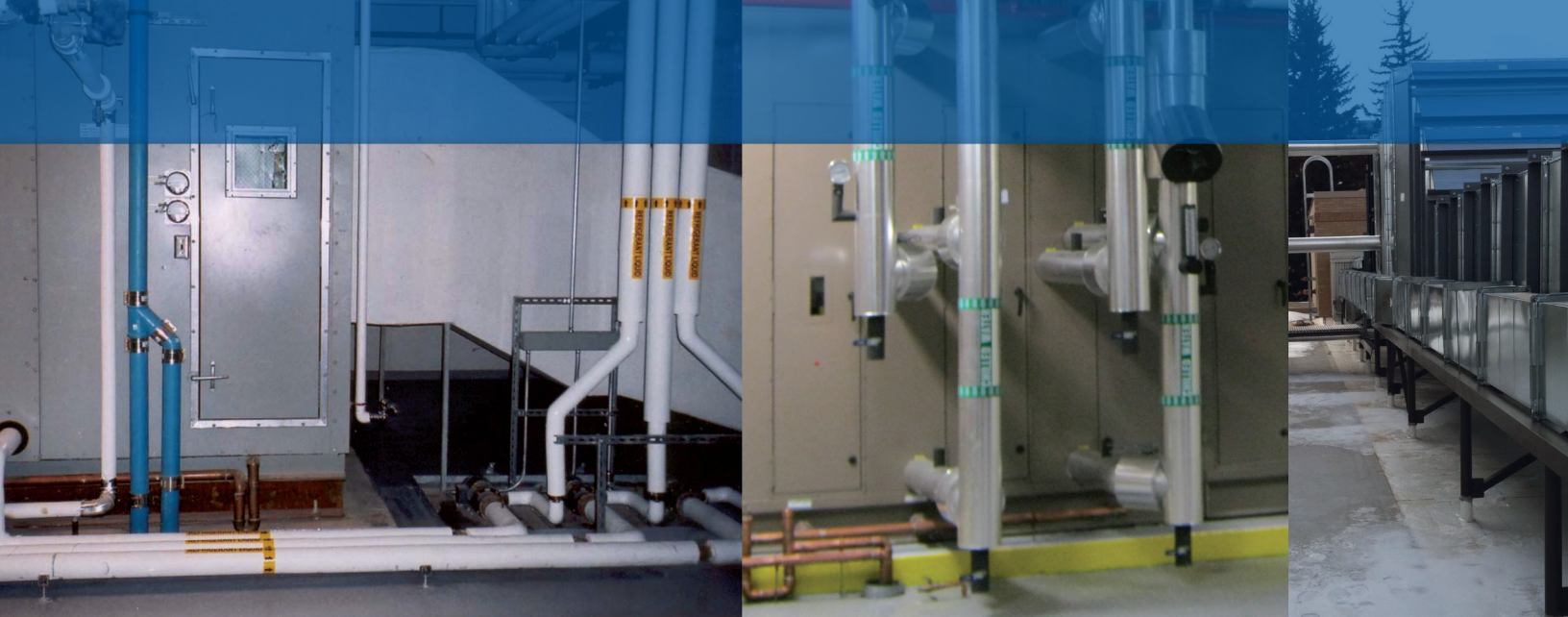


APPLICATIONS

- 100% Outside Air Systems
- Mixed air AHUs
- Replaces electric or hot water reheat
- Multi-zone AHUs
- Systems from 5,000 – 100,000 CFM
- Chilled Water, Brine, and DX Systems

THE BENEFITS TO YOUR AC SYSTEM

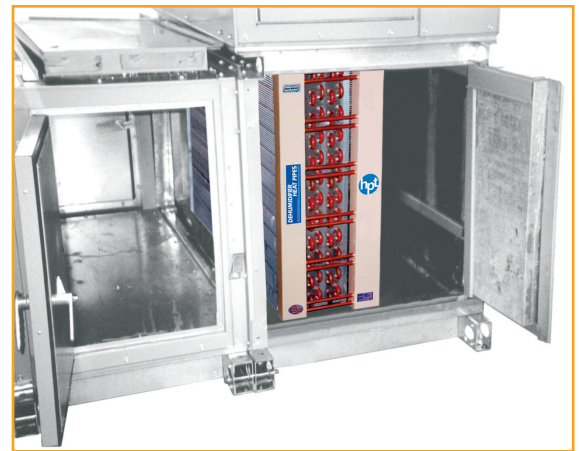
Amazingly, this entire process of precool and reheat is accomplished with no energy due to the passive nature of the heat pipe. The result is an air conditioning system with the ability to **remove considerably more moisture** than before, while **free reheat** is obtained for **better IAQ and energy savings**.



Factory Retrofits

Heat Pipes can be fitted in almost any AC unit. Units are shipped to the HPT facility where the heat pipes are retrofitted to the units and then shipped back to the jobsite.

Because heat pipes are passive and powered by the difference in air temperatures, they do not interfere with the existing circuiting of the system, be it chilled water or DX.



Made to Order Retrofits

“U-framed” dehumidifier heat pipes are completely charged and ready to be placed as a fitted component in any air handler.

When the configuration and specifications of the system are acceptable for the slide in design, this often provides the simplest and most cost effective method of installation in many AC units. This design is popular with OEMs and overseas customers.

On-site Retrofits

An HPT crew travels to the job site for a complete turnkey dehumidification heat pipe installation.



Controllable

Ideal for Controlling Supply Air Temperature & Variable Reheat

In those applications where precise temperature control is required, HPT dehumidifier heat pipes can be equipped with solenoid valves (24V or 110V). Number of valves is dependant on heat pipes size and number of rows. Control valves are grouped in stages to connect to the building BAS.

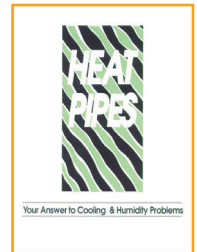


What Others Say...

Virtually
Maintenance
Free

"In addition to costing less to buy and install, other advantages are that they eliminate the need for reheat or desiccant systems, require no mechanical or electrical input, are virtually maintenance free, provide lower operating costs and last a very long time..."

From Edison Electric Institute's
"Heat Pipes: Your Answer to Cooling and Humidity Problems."



Saves Money

"The investment has definitely paid off and I would say that over the past couple of years, it's been well over a million dollars in savings."

Mike Garrison, Director of Engineering
Omni Orlando Resort at ChampionsGate



HEAT PIPE TECHNOLOGY

a subsidiary of MiTek® • a Berkshire Hathaway company

advanced energy recovery and dehumidification

6904 Parke East Blvd., Tampa, Florida 33610

Phone: (813) 470-4250

Fax: (813) 470-4252

Email: info@heatpipe.com

Web: www.heatpipe.com

© 2013 MiTek®, All Rights Reserved

LIT CODE: DHP 08/2013