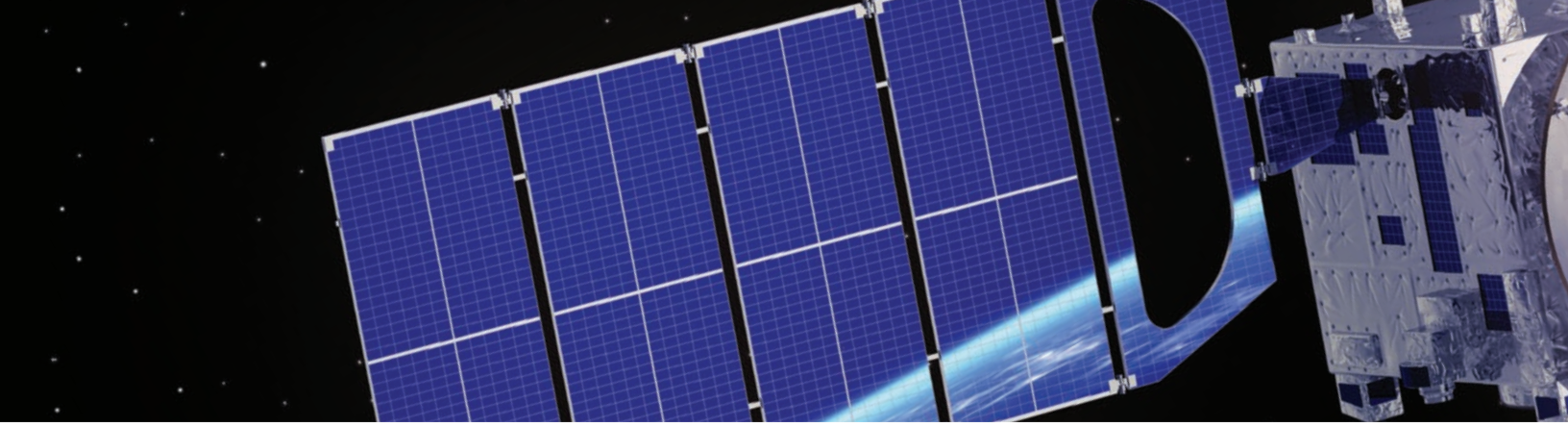
HEAT PIPE TECHNOLOGY

Save money and energy with Heat Pipe Technology.

heatpipe.com

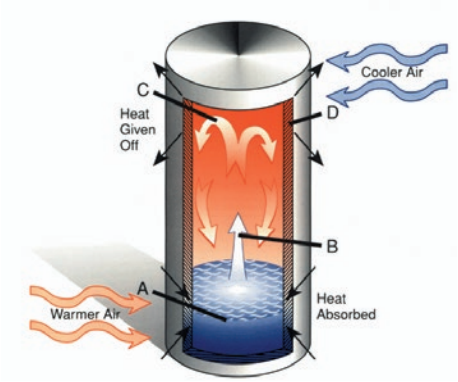


So, What Exactly Do Heat Pipes Do?

Heat pipes are thermal transfer devices capable of transferring heat and energy several hundred times faster than conventional methods. A heat pipe is a hollow cylinder filled with a two-phase fluid which vaporizes at one end, called the evaporator, and condenses at the other end, called the condenser. The process of vaporization and condensation absorbs and releases large amounts of heat. When wrapped around a cooling coil in an AC unit, the evaporator precools the air and the condenser reheats it back up, resulting in increased moisture removal, reduced humidity and energy savings. The other main application is energy recovery, where the heat pipe coil is placed in the path of supply and exhaust air, providing free energy to preheat cold supply air in winter and precool hot supply air in the summer.

Heat Pipe Structure Close Up

A heat pipe is a hollow copper cylinder filled with a refrigerant.



1) Heat is absorbed in the evaporator section (A). The fluid boils, the hot vapor rises (B).

2) As the vapor reaches the condensing area of the cylinder (C), the heat is given off to the environment and the vapor condenses.

3) The liquid returns by gravity or capillary action through a "wick" (D). The cycle then repeats.

People We Work With | Industries We Serve

- NASA
- US Military
- Hospitality
- Healthcare
- Educational K-12
- Colleges & Universities
- Government
- Laboratories
- Pharmaceutical Manufacturing
- Sports Arenas

The Pursuit of Efficiency

We're also equally driven by the pursuit of efficiency as we are innovation. That's why we pioneered technology like wraparounds, energy recovery and site-installed heat pipe systems — just to name a few. With an international distribution network, our product is more available than ever. These superconductors can conduct up to a thousand times faster than traditional copper, and that kind of speedy heat-transfer is rare here on earth. And maybe that's why some of the most state-of-the-art structures on the planet incorporate our technology.

YOUR DIRECT PIPELINE TO SAVINGS.

What's In It for You?

Heat Pipe Technology optimizes air conditioning and dehumidification, helping business owners cut their energy use by large, noticeable margins. This technology was first used in industries like aerospace for orbiting satellites and in energy production for the Alaskan pipeline. But after a three-year, half-million dollar project with NASA, we found a way to apply heat pipes to non-industrial air conditioning systems. These efforts with NASA also helped enhance efficiency in both dehumidification performance and energy utilization, all while increasing moisture removal by 30 to 50%. And that's not all; these optimized heat pipes cost one-third of the price of their commercial cousins.

People Are Willing to Vouch

Here's what Mike Garrison — the Director of Engineering of Omni Orlando Resort at ChampionsGate — had to say: "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. I would absolutely recommend Heat Pipe Technology to other hotels."

Every BTU We Recover is One Less You Pay For

We're a green company and value environmental responsibility over financial profits. By helping major corporations and private or independent clients like you, we're able to help a wide variety of people reduce their energy use and CO2 emissions. Our staff of engineers and specialized installation experts are up to any challenge.

About HPT

HEA T PIPE TECHNOLO GY, INC. (HPT) is the inn ovation leader in energy rec overy and dehumidifi cation sy stems f or commercial applications around the globe. Emplo ying the very latest in passiv e heat transf er technology, HPT designs and supplies the core sy stems to the w orld's leading commercial air handling equipment manuf acturers.

HPT w as f ounded in 1 983 with a grant from the Department of Energy f or a project to begin researc h on ne w uses f or heat pipe tec hnology. Additional researc h and d evelopment f ollow ed resulting in a ne w t ype of heat pipe that is less e xpensiv e to manuf acture, more practical to implement, and just as ef ficient as earlier heat pipes that w ere used in the space program. This resulted in heat pipe sy stem implement ations in thousands of inst allations w orldwide, helping customers impr ove their f acilities ' Indoor Air Qualit y at a l ow er cost while lowering overall energy cost.

In N ovember of 20 09, HPT w as acquired by MiT ek®, a B erkshire Hath away Compan y. W ith an infusion of capital, we invested hea vily in personnel, mac hinery and sof tw are. All of these are components that laid the foundation f or growth f or y ears to come, allo wing us to become a tr ue global partner .

Let' s Talk.

W ant to kno w more, or to place an order? Here 's our cont act inf o.

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