

Omni Resort at ChampionsGate

Case Study Hotels and Resorts

Opportunity

The Omni Resort at ChampionsGate is one of the nation's premier golf, leisure and meeting retreats with 720 guestrooms and suites located in the tourist capital of Florida, Orlando. Like many hotels in a humid climate, the Omni Resort not only has to cool the outside air to remove excess moisture, but they also have to reheat the air to a comfortable temperature before discharging it throughout the vast hotel. This process requires the use of electric heat strips, that cost a great deal of energy, but without the reheat of the air, the result would be cold, clammy air that is conducive to mold and mildew. *"The whole dehumidification system was designed around electric heat strips,"* said Director of Engineering, Mike Garrison. This method of moisture removal and reheat, although it is somewhat effective, is not efficient.

Solution

Custom Site Retrofit Wrap-Around Heat Pipes

A member of his engineering team recommended heat pipes to Mike Garrison. After some research into the product, it was obvious that heat pipes were the best choice for the Omni Resort. Because heat pipes are passive and powered by difference in air temperatures, not electricity, they do not interfere with existing circuiting of the system and allow for substantial energy savings.

"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

Now Omni Resort at ChampionsGate is able to maintain the temperature and humidity levels of the air without the use of expensive electric heat strips. With the electric heat strips disconnected, Omni Resort has seen substantial savings in their heating and cooling energy consumption.

Omni Resort at ChampionsGate was so pleased with the results that they have turned to Heat Pipe Technology, Inc. for all of their dehumidification needs throughout the resort. Heat Pipe Technology, Inc. has worked with Omni Resort since 2005 and continues to improve the resort with a total of 16 units, totaling 240,000 CFM, retrofitted in the past four years in 3 separate projects. These installations have a total annual savings of over \$400,000.

"I would absolutely recommend Heat Pipe Technology to other hotels."

- Mike Garrison, Director of Engineering, Omni Orlando Resort at ChampionsGate



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