

CASE HISTORY PROJECT SUMMARY
Strom Thurmond Fitness Center, University of South Carolina
Columbia, SC



PROBLEM: Incorporate an energy efficient dehumidification system into the 24 hour continuous operating fitness center.

SOLUTION: Carolina Heat Pipe, Inc. provided and installed a five (5) row vertical Thermosyphon Run Around Heat Pipe (TRAHP™) system. One end was placed in the exhaust air stream and the other end was placed in the supply air stream.

RESULTS: The cooling load was reduced by 26 tons and the natural gas requirement was reduced 3 Therms per hour.

PAYBACK PERIOD: 1.41 years

RETURN ON INVESTMENT (ROI): 71%

CHP#: 00-074