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**CASE HISTORY PROJECT SUMMARY**  
**Daniel Library, The Citadel**  
**Charleston, SC**



**PROBLEM:** Librarian reported high relative humidity levels that were damaging valuable archive materials.

**SOLUTION:** Carolina Heat Pipe, Inc. retrofitted a two (2) row Thermosyphon Run Around Heat Pipe (TRAHP™) system into a 14840 CFM Carrier Air Handler, 39W12749R Multizone Central Station with chilled water and steam coils.

**RESULTS:** This installation, along with the addition of a variable frequency drive, changed the specific heat ratio so that the library would maintain 50% relative humidity and prevent further damage to the materials, all without additional energy consumption.

**CHP#: 03-035**