A Closer Look

Carolina HEAT PIPE

Oaks Clubhouse Restaurant and Lounge, Oaks Executive Course, A.C. Read Golf Course Pensacola, Florida

The Project:
Renovation of the golf course clubhouse. The average relative humidity in Pensacola is very high with extreme seasonal variation in perceived humidity so energy efficient humidity control was a priority.

The Solution:
Carolina Heat Pipe partnered with Trane Gulf South to create a heat pipe system to meet the needs of the clubhouse and the climate. CHP designed and manufactured two custom 2-row Thermosyphon Run Around Heat Pipe Systems for the Clubhouse. The two TRAHP™ systems were installed within Trane size 8 Climate Changer Performance Indoor Air Handlers at our Charleston facility and then sent to Pensacola for final installation at the clubhouse. The heat pipe system installed is fully controllable and can be modulated to provide energy efficient dehumidification.

Performance Results:

At design load conditions, the CHP TRAHP™ system installed within AHU-1 (3540 CFM) will provide 2.9 tons of cooling load reduction and 34.5 MBH of free reheat.

At design load conditions, the CHP TRAHP ™ system installed within AHU-2 (3000 CFM) will provide 2.3 tons of cooling load reduction and 27.5 MBH of free reheat.

The TRAHP ™ system requires only simple maintenance of periodic coil cleaning for the life of the air handler. The modulating valve for reheat control is the only moving part. Carolina Heat Pipe's thermosyphons are precisely charged and sealed.

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