



Valencia Lakes Club House Wimauma, Florida

Commerical Solutions
in Action
Solutions for Energy Recovery
& Dehumidification

The Project:

Incorporate a controllable energy efficient Thermosyphon Run Around Heat Pipe system (TRAHP®) in a Trane CSAA size 10 air handler treating 3,300 CFM of outdoor air. Key elements are building efficiency and dehumidification enhancement with minimal maintenance as the location of the installation is a mixed use Clubhouse located where the average outside temperature is 85 F degrees and relative humidity in the 75% range.



The Solution:

Carolina Heat Pipe partnered with Trane Technologies and ASR Engineering to provide a wraparound heat pipe system to meet the needs of the clubhouse and the Florida climate. CHP designed, manufactured and installed their 2- row controllable St Mach 1 TRAHP®. The heat pipe system included full modulating control to provide energy efficient dehumidification.

Performance Results:

At design load conditions, the CHP TRAHP™ provides 4.2 tons of cooling load reduction and 50.7MBH of passive reheat.

The TRAHP™ system requires simple maintenance of periodic coil cleaning for the life of the air handler. The modulating valve for reheat control is the only moving component.

Commercial • Educational • Governmental • Industrial • Medical

carolinaheatpipe.com
sales@carolinaheatpipe.com



404-966-2237 Georgia
843-795-9965 South Carolina