



CASE HISTORY PROJECT SUMMARY
Novartis USFCC Vaccines & Diagnostics Facility
Holly Springs, NC



PROBLEM: Customer required certain air handlers be fitted with Carolina Heat Pipe provided ST MACH-1 Controllable Thermosyphon Run Around Heat Pipe (TRAHP™) Heat Exchangers for energy efficient dehumidification.

SOLUTION: Carolina Heat Pipe designed and provided their TRAHP™ system into the specified air handlers for all phases of construction. Most work was done at the air handler manufacturer's facility so the complete air handler could be tested before being sent to the job site.

RESULTS: By precooling the incoming air, the cooling load was reduced while free reheat was provided to raise the supply air temperature and thus lower the relative humidity during the cooling process. In February 2012 the last of the installed systems were certified to be operating properly by the commissioning authority.

PAYBACK PERIOD: 3.24 years

RETURN ON INVESTMENT (ROI): 31%

CHP#: 11-0210