



Novartis Pharmaceuticals USFCC Vaccines & Diagnostics Facility Holly Springs, North Carolina

Industrial | Solutions
in Action
Solutions for Energy Recovery
& Dehumidification



The Project:

Novartis required certain air handlers be fitted with ST MACH-1 TRAHP™ for energy efficient dehumidification. The CHP Thermosyphon Run Around Heat Pipe is controllable.

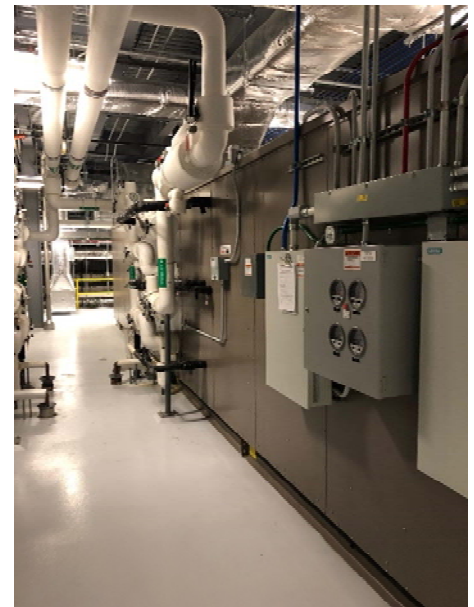
The Solution:

Carolina Heat Pipe designed and provided their ST Mach 1 - 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. The heat pipes provided for 127 MBH load reduction on the chilled water coil as well as passive reheat.

Performance 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. Each of the installed systems was certified to be operating properly by an independent commissioning agent.

PAYBACK PERIOD: 3.24 years
RETURN ON INVESTMENT: 31%



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