



Milton Public Service Center Milton, Georgia



The Project:

A new public facility experiencing high humidity and sub cooling summertime conditions in spaces with light traffic/low loads. The best energy efficient solution was determined to be a field installed controllable hot gas reheat system into three Trane Precedent DX roof top units.

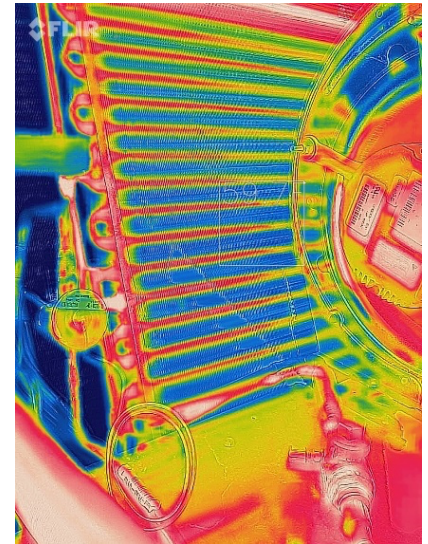
The Solution:

Carolina Heat Pipe designed and installed a custom Hot Gas Reheat system that utilizes condenser heat for dehumidification. This system transfers sensible BTUs, typically rejected at the condenser coil, to warm the cold saturated air leaving the evaporator and thereby lowering the Rh of the conditioned air entering the space. The warmer air allows the RTU to run longer, providing greater dehumidification, without sub cooling the space.

Performance Results:

Satisfactory performance results were verified from each of the three roof top units. Carolina Heat Pipe's HGRH control system uses a "cooling first, dehumidification second" sequence of operation to keep occupants comfortable, while providing improved dehumidification.

Governmental Solutions
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Solutions for Energy Recovery
& Dehumidification



Infrared photo of HGRH coil providing sensible reheat

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