



EVAPORCOOL[®]

• CASE STUDY •



Trane Commercial Systems Atlanta, GA

This case study is the result of a joint effort between Georgia Trane and Evaporcool Solutions, LLC. The results were analyzed and prepared by Trane's in-house LEED AP, Energy Engineer.

The Evaporcool System

The Evaporcool System is a proprietary, state of the art evaporative pre-cooler which is custom manufactured to non-invasively work with virtually any air-cooled condensing unit. For more information on this product, please visit www.energyps.com or call 713-931-2735.

Project Scope...

The objective of this study was to quantify the energy savings potential of the Evaporcool System in the humid Atlanta climate. This project did not evaluate the additional benefits of the Evaporcool System, including reduced maintenance costs, increased cooling capacity, improved kw/ton ratio, extension of equipment lifecycle or improved equipment reliability.

Project Description...

The Evaporcool System was installed on a 40 Ton Trane DX Package Unit on the Georgia Trane main office building in Atlanta, Georgia. Unit performance was monitored using an Amprobe DM-II PRO electrical data logger/recorder, beginning on June 25, 2009. The Evaporcool System was installed on August 7, 2009 and data was collected through September 21, 2009.

Project Highlights...

Capital Cost: \$4,500

kWh Reduction: 14%

Demand Reduction: 920 kw

Internal Rate of Return: 24.9%

CO² Emissions Cut: 42,844 lbm/yr



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