SMARTCOOL™

Smartcool Performance Report

US Century Bank
Florida, USA

Smartcool's energy efficiency solutions achieved the following results in an installation on the air conditioning for this bank:

U.S. CENTURY BANK

Annual Energy Savings From Smartcool Project

Annual Financial Savings

Greenhouse Gas Emissions Reduction

The Project

Smartcool installed the ECO3 to optimize the compressors in three Carrier air conditioning units (two 5-ton and one 1.5 ton) and three Trane XB-13 air conditioning units (two 4-ton and one 2.5 ton).

These air conditioning units provide cooling for the various rooms inside the bank, as well as leased office space on the second floor.

The ECO3 logs the number of hours the compressor runs as well as the number of hours the ECO3 prevents the compressor from running in order to save energy. This data is shown on the product display screen for easy savings verification.

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Two ECO3 units were mounted inside the bank, above the existing thermostats, so that savings could be easily checked by the staff.

Project Results

The ECO3 reduced the energy consumption of the air conditioning compressors by an average of 26%.

This will save US Century Bank approximately 17,235 kWh per year, and cuts their annual electricity bill by over $2,400. The energy efficiency improvement will also cut greenhouse gas emissions by 10,547 kg every year. Savings were achieved with no impact on temperature or humidity performance.

Smartcool's Energy Efficiency Solutions

Smartcool's green technology is specifically designed to reduce electricity usage (kWh) and demand (KW) of air conditioning compressors, while maintaining temperature and humidity performance.

The ESM™ and ECO³™ use proprietary software to dynamically analyze compressor cycles, achieving an overall reduction in run time without causing over cycling. Energy efficiency gains are achieved without affecting cooling capacity, temperature requirements or manufacturer warranties.

Smartcool's products optimize the performance of the compressors which consume an estimated 70% of the energy utilized by the cooling system. By reducing the compressor run time through cycle optimization or load shedding, our products save energy both through lower electricity usage (kWh) and decreased demand (KW).