

Smartcool Performance Report

YMCA
Florida, USA

Smartcool's energy efficiency solutions achieved the following results during a pilot project at a YMCA community center:



"As we move forward with our plan to roll out the ECO³ across our entire association of YMCAs in the Suncoast service area, we are looking at the potential to save in excess of \$50,000 per year at 8 locations. In our previous facility upgrades we have looked for a payback in 3 to 4 years, but with Smartcool we are seeing a payback in 12 to 18 months."

- Tim Ackerman, VP of Buildings & Grounds, YMCA Suncoast

The Pilot Project

The project was managed by Global Energy Services (GES), a Smartcool distributor active in Florida. GES installed the ECO³™ to optimize the compressors in a number of air conditioning units, providing cooling to the community center. During the evaluation period in 2010, the building management controls already in the community center were monitored to confirm the screen data from the ECO³™ units and to determine energy savings achieved.

Project Results

The ECO³™ reduced the energy consumption of the compressors with no discernible impact on temperature or humidity performance of the air conditioning system. The positive results of this pilot project, led the YMCA to deploy the ECO³™ to an additional 7 sites.



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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.

Conventional controls, including the most sophisticated Building Management Systems (BMS), operate only on reaching pre-programmed fixed (static) values to switch compressors on, and off, or adjust capacity. Rather than replacing existing controls, Smartcool's ESM™ and ECO³™ interface directly with controls to optimize the compressor run time and achieve greater energy efficiency.



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).

