

SMARTCOOL™

REDUCING ENERGY USE BY 30% IN COMMERCIAL REAL ESTATE PROPERTIES SAVES AN AVERAGE \$25,000 PER YEAR IN OPERATING COSTS FOR EVERY 50,000 SQUARE FEET OF OFFICE SPACE.

AIR CONDITIONING AND REFRIGERATION TOGETHER CONSUME AN AVERAGE OF 35% OF THE ENERGY USED IN RETAIL FACILITIES.

ENERGY EFFICIENCY

ECONOMIC BENEFITS

ENVIRONMENTAL SUSTAINABILITY



ESM™



ECO3™

ENERGY SAVING MODULE™ PRODUCTS

Reduces energy usage (kWh) of air conditioning and refrigeration compressors by an average of 15%

Average demand (KW) savings of 10%

Savings achieved with no effect on space temperature

Retrofit technology compatible with all air conditioning and refrigeration systems

Financial and environmental benefits are quantifiable and can qualify for rebates and other financial incentives

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SMARTCOOL™

The Smartcool Energy Saving Module (ESM)™ and ECO3™ are unique retrofit technologies designed specifically for air conditioning and refrigeration systems. The ESM™ and ECO3™ work through a process known as 'compressor optimization', improving the efficiency of the compressors, which normally consume 70% of the total electricity used by cooling systems. This optimization results in a significant reduction in electricity consumption, operational costs and greenhouse gas emissions.

The technology interfaces with existing controls, and is compatible with all types of air conditioning and refrigeration systems. The ESM™ is suitable for installation on virtually any system, while the ECO3™ provides an economical solution for smaller single and dual compressor systems. Both are 'set and forget' technology and install with virtually no system downtime, meaning no interruptions to facility operations.

Smartcool Systems Inc. markets the ESM™ and ECO3™ through a network of distributors that interface directly with clients. Smartcool's head office in Vancouver, Canada and regional distribution hubs in Houston, London, and Sydney provide exceptional customer service for clients anywhere in the world.

APPLICATIONS FOR THE ESM™ AND ECO3™



The Smartcool ESM™ and ECO3™ can optimize the compressors within any part of the cooling systems present in commercial real estate. The ECO3™ is an ideal fit for improving energy efficiency on smaller single or dual compressor air conditioning systems or single compressor refrigeration systems. The ESM™ is perfectly suited for larger cooling systems, such as building-wide air conditioning and chillers.

COMMERCIAL REAL ESTATE CASE STUDY

WESTPAC BANKING CORPORATION
SYDNEY, AUSTRALIA

22.40%
KWH SAVINGS

125,746 KWH
ESTIMATED ANNUAL REDUCTION

169,616 LBS
GREENHOUSE GAS EMISSIONS
REDUCTION

15 MONTHS
RETURN ON INVESTMENT



Smartcool's ESM™ has been installed in many air conditioning systems for Westpac, including this example from one of their locations in Sydney, Australia. Savings across seven lead test sites averaged a 24% reduction in kWh consumption with an average 18 months for the company to see a return on investment.

PROVEN TECHNOLOGY

Independent third party testing and over 25,000 installations worldwide all prove the Energy Saving Module™ product line as an effective, reliable technology providing energy savings worldwide.

QUANTIFIABLE RESULTS

Energy savings achieved by Smartcool products are easily measured, helping clients qualify for government & utility rebates.

ORGANIZATIONS



CORPORATE RECOGNITION

Deloitte
Technology Green 15



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STANDARDS COMPLIANCE



SMARTCOOL™

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