

SMARTCOOL™

THE AMOUNT OF ENERGY USED TO KEEP DATA CENTER EQUIPMENT COOL ENOUGH TO FUNCTION, IS EQUAL TO THE AMOUNT OF ENERGY NEEDED TO RUN THE DATA CENTER EQUIPMENT.

DATA CENTERS CONSUME 15 TIMES MORE ENERGY PER SQUARE FOOT THAN A TYPICAL OFFICE BUILDING.

ENERGY EFFICIENCY

ECONOMIC BENEFITS

ENVIRONMENTAL SUSTAINABILITY



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

WWW.SMARTCOOL.NET

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 a data center's cooling systems. The ECO3™ is an ideal fit for improving energy efficiency on smaller single or dual compressor air conditioning systems, while the ESM™ is perfectly suited for larger cooling systems such as those cooling the rack servers.

DATA CENTER CASE STUDY

REED BUSINESS INFORMATION
UNITED KINGDOM

30.00%
KWH SAVINGS

270,000 KWH
ESTIMATED ANNUAL REDUCTION

278,051 LBS
GREENHOUSE GAS EMISSIONS
REDUCTION

15 MONTHS
RETURN ON INVESTMENT



"The installation of the ESM™ definitely exceeded our expectations - we were genuinely surprised with the performance and the savings! From our point of view, the ESM™ is doing everything it was promised it would do - we are very pleased with the environmental angle and this is an area which is important to us. I would now like to talk to our sister companies to identify savings with the ESM™ - its reassuring performance comes with a proven track record."

- Leyroy Hansen, Building Services Manager
Reed Business Information Ltd.

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™

INFO@SMARTCOOL.NET

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