

# SMARTCOOL™

30% OF OPERATING COSTS FOR HOTELS COME JUST FROM AIR CONDITIONING. REDUCING THESE COSTS ACROSS THE HOTEL INDUSTRY WOULD SAVE \$285 MILLION EACH YEAR IN THE US ALONE.

THE ANNUAL ENERGY BILL FOR US RESTAURANTS IS \$10 BILLION. 80% OF THIS ENERGY IS WASTED THROUGH INEFFICIENT SYSTEMS.

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

[WWW.SMARTCOOL.NET](http://WWW.SMARTCOOL.NET)

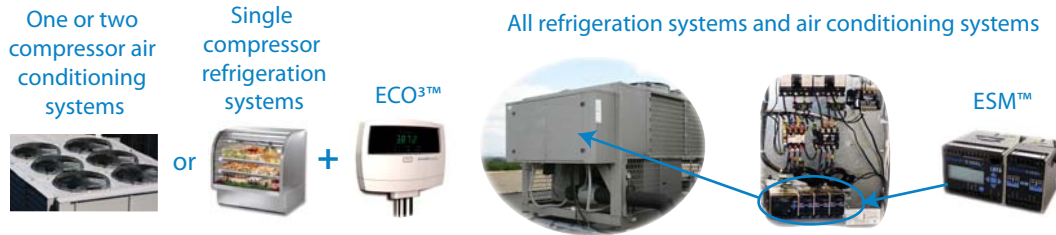
# SMARTCOOL™

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 the cooling systems in hotels and restaurants. 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 refrigeration racks and chillers.

## HOSPITALITY CASE STUDY

**RADISSON SAS HOTEL  
DUBAI MEDIA CITY, UAE**

**9.13%  
KWH SAVINGS**

**187,089 KWH  
ESTIMATED ANNUAL REDUCTION**

**242,917 LBS  
GREENHOUSE GAS EMISSIONS  
REDUCTION**

**15.4 MONTHS  
RETURN ON INVESTMENT**



"The installation of the ESM™ in our hotel has given us substantial benefits, both financially and environmentally. I believe that the use of the ESM™ goes in the right direction in taking a more responsible approach in using less natural resources in our buildings. Energy efficiency is a key concern in the hospitality industry, and Smartcool is providing a great solution."

- Siegfried Nierhaus, General Manager  
Radisson SAS, Dubai Media City, UAE

## 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



**BGhydro** &  
**powersmart**



## CORPORATE RECOGNITION

**Deloitte.**  
Technology Green 15



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## STANDARDS COMPLIANCE



**SMARTCOOL™**

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