

ECO³™ PERFORMANCE REVIEW

Wellcome: Hong Kong

Business Type	Supermarket
Location	Tai Koo Store Hong Kong
A/C or Refrigeration	A/C
Brand	Coolmatic
# of Units	4



Result Highlights

Return on Investment	Annual kWh Reduction	kWh Savings	Greenhouse Gas Reduction
28 months	29,000 kWh	16.07%	39,117 lbs

Evaluation Period

- The evaluation was conducted in August and September 2008
- ECO³™ OFF: August 23 to 30 & September 6 to 13, 2008.
 - ECO³™ ON: August 30 to September 6 & September 13 to 20, 2008.

Project Description

ECO³™ equipment was installed on 4 air conditioning units responsible for cooling the entire two-level supermarket.

The ECO³™ units were switched between ON and OFF modes in order to gather comparative data for each air conditioning unit. Energy data loggers were installed to measure and record the kW, kWh, and Amps consumption of the air conditioning units during the evaluation period.

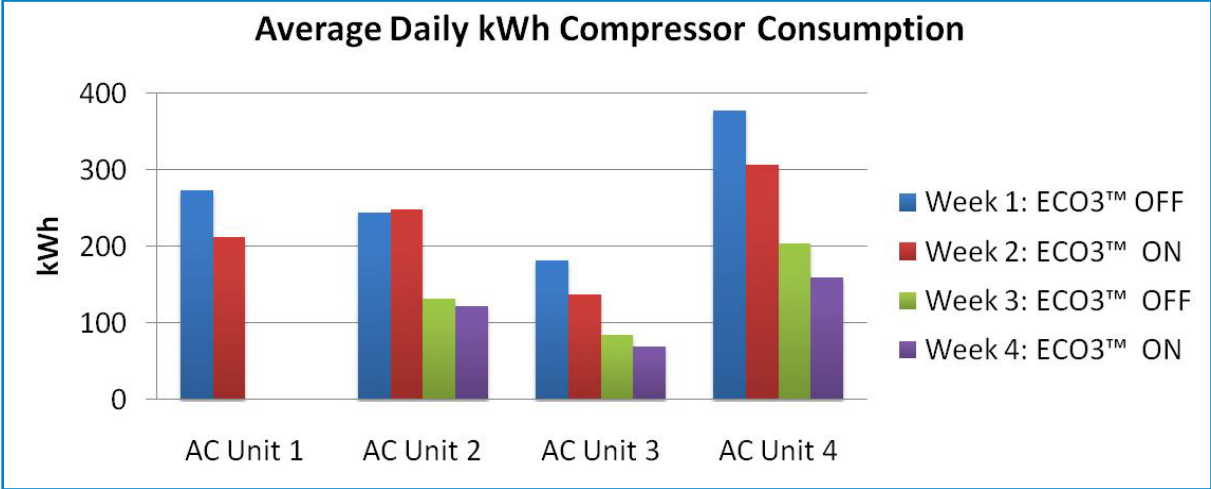
The data loggers take a measure every 8 seconds and are set to provide a date stamped printout every 6 minutes. During the analyses the data is accumulated and/or averaged over one hour periods to compile the comparative data.

Throughout the evaluation, temperature loggers were also used to measure and record the ambient air temperatures.

Results Summary

Results from the evaluation clearly demonstrate that the ECO³™ significantly reduces kWh consumption providing both financial and environmental benefits without compromising temperature requirements of the facility.

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Electricity Reduction	
ESM™ OFF: Avg. Daily kWh	213.63
ESM™ ON: Avg. Daily kWh	179.31
Average Daily kWh Reduction	31.32
kWh % Reduction	16.07%
Estimated Annual kWh Reduction	29,000
Pay Back Period	28 months

Environmental Benefits	
Greenhouse Gas Reduction	39,117 pounds
Tree Equivalent	21 acres
Enough Electricity to Supply	20 homes

