

## US firm signs deal with local chiller specialist

Gerhard Hope , December 21st, 2009

**Smartcool Systems Inc. has signed an exclusive agreement with the largest chiller services specialist in the Middle East to distribute its energy savings module (ESM) in the UAE and Bahrain.**

In addition US Chiller Services will also market Smartcool's ECO3 on a non-exclusive basis. As well as having offices in Dubai, UAE and Manama in the Kingdom of Bahrain, it also has locations in California and Florida.



As part of its due diligence process, US Chillers installed the ESM on a large-tonnage centrifugal chiller at a location managed by Palm District Cooling in Dubai. The test began in July 2009 and required 14 days of operation, whereby readings were taken prior to activation of the ESM.

Readings were then recorded for a 14-day period with the ESM activated. To further verify testing results, these readings were compared to a 14-day period whereby readings were recorded with the ESM turned on and off on alternate days.

The results from the testing period indicated energy savings of 13.16% when comparing the 14 day on-and-off period, and 16.63% energy savings for the alternate day period. On average, the ESM provided savings of 2,925 kWh a day, an average savings of 14.89%. This equates to about US\$95 000 a year on this single chiller application.

"The test was conducted throughout real operational conditions during 42 days under the peak Dubai summer period when midday temperatures can reach 50°C, yet Smartcool's technology provided very impressive results," said Dan Mizesko, president of US Chiller Services.

Not only did the ESM save substantial kWh input power to the chiller, it was also able to slightly improve the chiller's kW per ton efficiency. "We were also able to confirm that the technology can be integrated to multiple chillers, allowing chillers to share the common load equally and save energy equally. Our firm conclusion is the Smartcool technology is a powerful energy-saving technology on single or multiple chiller installations," said Mizesko.

"We are very pleased to be working with US Chiller Services," said George Burnes, president and CEO of Smartcool Systems Inc. "US Chillers has an award-winning reputation, and we feel very comfortable that our energy-savings technology will be represented to a wide array of clients in a very important marketplace for our company. The test has only endorsed what we at Smartcool already know, and that is that we have a technology that can provide energy reduction resulting in significant cost savings," concluded Burnes.

The Smartcool ESM can be retrofitted to existing refrigeration and air-conditioning systems, and is compatible with all known control systems. More than 26 000 units have been installed worldwide for customers such as supermarkets, food distributors, telecoms companies, hospitals and hotels. Its new ECO3 provides the same environmental and cost-saving benefits to residential and commercial customers using one and two compressor cooling systems.