	Advertisement:
the	Which rooftop unit       Saves you time?
Quick Links:	Extra Edition   How To Corner   Digital Edition   HVACR Directory
Home	
Subscription	
Information	The NEWS
Current	
<ul> <li>Survey</li> <li>Breaking News</li> </ul>	Profit From a REAL
Calendar of Events	FIOIL FIOIL A NEAL
Training Track	<u> Print</u>
- Columns	
- What's New	
Extra Edition	July 14, 2006: Morgan Stanley Installs Largest Ice Storage A/C System in New York
Extra Edition Home	
Service & Maintenance	July 14, 2006
Technical	-
Business	4
Management	DUDCHASE NV Memory Stanley was recognized by state and county officials at its Dynahose facility
Editorial Archives	PURCHASE, N.Y. — Morgan Stanley was recognized by state and county officials at its Purchase facility installing the New York metropolitan area's largest ice storage based air conditioning system, which
Resources	delivers significant energy savings. The New York State Energy Research and Development Authority
Ad Index	
Books	(NYSERDA) presented Morgan Stanley with a ceremonial incentive check in the amount of \$300,000.
Classifieds	- Deter D. Smith, and its to a CEO of NWSEDDA, and "NWSEDDA offers financial and to bring to be
<ul> <li>Classifieds</li> <li>HVACR Directory +</li> </ul>	Peter R. Smith, president and CEO of NYSERDA, said, "NYSERDA offers financial and technical assista
Source Guide	initiatives to help with identifying and installing projects which address the energy efficiency needs of c
Industry Links	partners in a way that improves the environment and lessens our dependence on foreign oil. Morgan
Industry Research	Stanley took the initiative to form a partnership with NYSERDA, Trane, and Calmac, and an innovative
Learning Center	solution to tackle the company's energy needs through the use of an ice storage system was developed."
Manufacturer	
Reports	Morgan Stanley engaged the Energy Services group of Trane's New York–New Jersey offices to develop
<ul> <li>Product Gallery</li> <li>Regional Reports</li> </ul>	energy-saving solution. Trane, with technical and financial analysis support from ECM, proposed a the
Services	storage solution that would shift the site's electrical load from day to night. Electricity is more plentiful,
- Contact Us	expensive, and is generated more efficiently during the night or off-peak hours.
Advertising	
Contacts	"Aging equipment and the need for additional cooling capacity and site resiliency motivated us to
Editorial Contacts	investigate environmentally responsible solutions," said James P. McAleer, vice president of facilities for
Card Deck	Morgan Stanley. "In addition to being recognized by NYSERDA and Westchester County, the Purchase
<ul> <li>eProduct Info</li> <li>List Rental</li> </ul>	will be a beta for similar projects at Morgan Stanley facilities around the globe."
Media Kit	
Reprints	Westchester County Executive Andy Spano said, "My administration is committed to supporting innovation of the support of the s
Submit Press	ways to address the county's energy needs to reduce dependence on foreign oil and protect the
Release	environment. The installation of a thermal storage system by Morgan Stanley in its large corporate offic
Special Features	building in Purchase helps us accomplish these important goals. I am very pleased Morgan Stanley is ir
2006 Dealer Design Awards	
- Cooling Showcase	State Energy Research and Development Authority, Trane, and Calmac Manufacturing Corp. for their h
Heating Showcase	in making this project possible in Westchester. I'm sure the success of this project will encourage other
	recognize the significant environmental benefits and cost savings offered by this type of technology. So
	time ago a similar type of thermal storage system was installed in the county's own Michaelian Office
	Building and it has saved energy and money for us and our taxpayers."

The ice storage system, provided by Trane, makes ice at night during off-peak hours to provide cooling next day during on-peak hours. The system is expected to lower the facility's peak energy usage by 740 reduce overall electric usage by 900,000 kWh, and reduce overall fuel consumption by 15,000 MMBtu.

The system includes a new 1,400-ton Trane Earthwise CenTraVac chiller, which operates at .576 kW/tc day mode and .733 kW/ton in ice-making mode. The ice made by this chiller is stored in 48 Calmac IceBank tanks with a total storage capacity of 8,400 ton-hours. The system has the flexibility to run on chiller only, ice only, or combined operation. There is also an emergency mode that can provide comfor cooling while making ice in the evening. The system includes a crossover plate and frame heat exchange which added redundancy to the existing data cooling loop and extended the free cooling season for the facility.

In addition to the energy savings created by this system, the environmental benefits are equivalent to Morgan Stanley planting 1.5 million acres of trees to absorb the carbon monoxide caused by the electric usage from one year of usage or removing 271 cars from Westchester County roads. Thermal storage systems have been recognized for improving the reliability of the electric grid by permanently shifting r cooling loads from on-peak to off-peak hours.

Publication date: 07/10/2006



© 2006 BNP Media. All rights reserved. | Privacy Policy