



# High Performance Buildings

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## It's 93° F Outside, but There's ICE Everywhere!

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the chilled water pumps which create the cooling effect by melting the ice.

Now, even building owners in areas where local utilities do not offer cash assistance are finding that ice storage makes solid financial sense. In these areas, new higher demand rates have made ice storage far more attractive. In particular, Partial Thermal Storage can make solid financial sense when demand rates climb because ice storage systems significantly reduce peak energy usage.

Just how can Partial Ice Storage Strategies compete with traditional HVAC systems? With

Partial Ice Storage

Strategies, during times of peak cooling load both the chiller and the ice operate together to cool the building. The results are that this arrangement allows the design engineer to:

- Reduce the size of the chillers and the chilled water piping
- Reduce the size of the buildings electrical system, switchgear and wiring sizes
- By using lower temperature air delivery

systems, reduce the size of the air handlers and the duct work

With all of the savings noted above it's no wonder partial ice storage jobs can be installed at a competitive price versus a conventional systems. The other good news is that these ice storage concepts can work for both new construction as well as existing buildings. Need more capacity with your current cooling system? Adding ice storage might allow you to substantially increase your system's capacity without buying any additional new chiller capacity. COOL!

Where can I see one of these systems and discuss the facts with experienced owners? Well, in fact there are ice jobs all over the West Coast of Florida. Hillsborough County Schools, Sarasota County Schools, Shell Point Village in Ft. Myers, and Hernando County Schools are just a few of the many owners employing ice. Yes, there are some very big jobs like the 82 tank job shown above right in downtown Tampa, or the 140 tank job in Lee County. But there are also numerous 2-6 tank projects out there that meet all the tests of success.

Looking for new ideas to reduce your first cost and insure you have a solid foundation for long term low operating costs? Give your Trane sales representative a call for more ice cold facts.

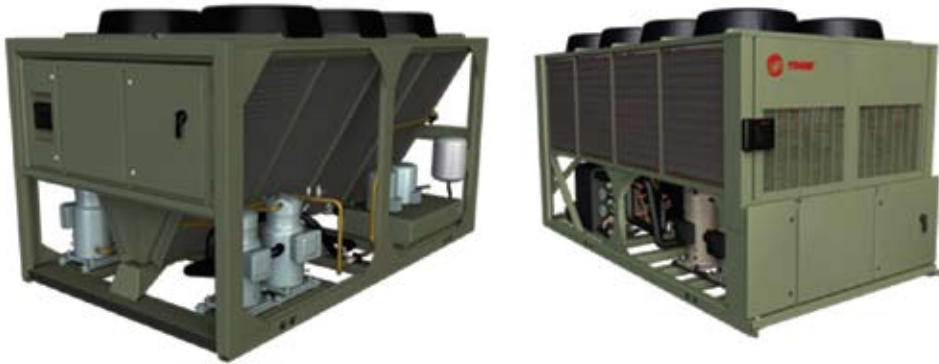


Hillsborough County Facilities

Trane customers from Manatee County South to the Everglades have long had the benefit of the attractive cash rebates offered by local electric utility companies which have been used to improve the first cost and the life cycle costs of Full Storage ice systems. With Full Storage the chiller runs only at night to freeze the tanks solid using a brine solution. Then during the peak cooling hours the chiller does not run at all and the entire building cooling load is carried by running only

## New Trane Products

**TCGAM Chillers.** Trane is excited to introduce a new line of air cooled chillers in the 20 to 130 ton range which offer numerous improvements including:

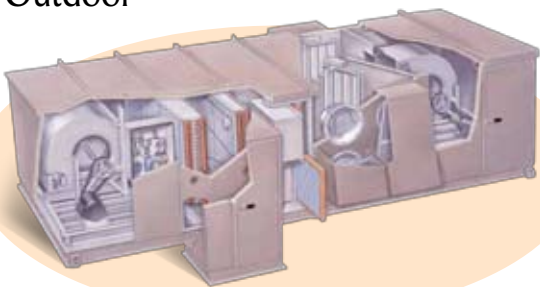


- Leading Energy Efficiency
- Low, low Sound Levels
- Partial Heat Recovery
- R-410a Refrigerant
- Shipping now from Trane Pueblo

**Trane Performance Climate Changer.** Combines the best of Trane Modular Indoor Climate Changer with the T-Series Outdoor Climate Changer into a single platform as the Trane Performance Climate Changer.

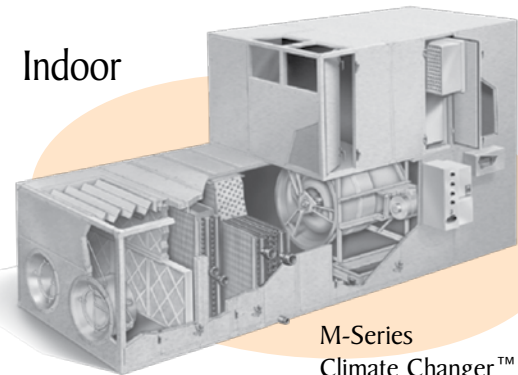
- Superior Performance • Leading Energy Efficiency • Highest Quality
- Lowest Installed Cost • Now shipping in sizes 3-30 from Trane Lexington

Outdoor

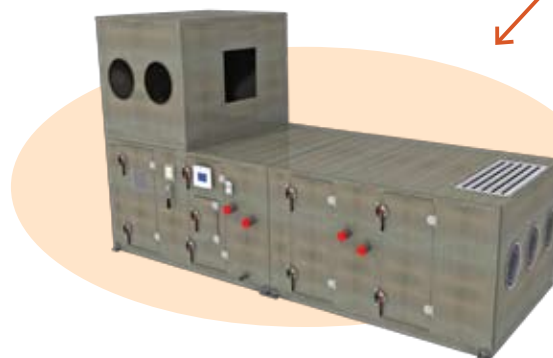


T-Series  
Climate Changer™  
Air Handler

Indoor



M-Series  
Climate Changer™  
Air Handler



Trane  
Performance  
Climate  
Changer™

## Centravac Parts Phase Out

*Attention owners of 1950 to 1994 Trane Centravac Water Chillers.*

**Beginning in January 2010, Trane will no longer offer controller parts for 1950 through 1994 CenTraVac™ water-cooled chiller control panels.**

- Affected models: CV, PCV, CVHA, CVHB, and CVHE
- These panels use outdated pneumatic, classic and electronic components, some of the original suppliers have ended production and Trane’s purchased supply will soon be exhausted.
- Not affected are Trane UCP1 parts availability for RTHA and other Series R water cooled screw chillers.

**If a phased-out component fails, there will be substantial delays in finding an alternate solution.**

**Centravac owners will need to understand the potential impact of this phase out and select a strategy based on the following questions:**

- “If the chiller was down for a week or longer, would its outage cause a problem for the facility?”
- “How long will these chillers be kept in the building?”
- “Does the building have a Trane or other Building Automation System (BAS)?”

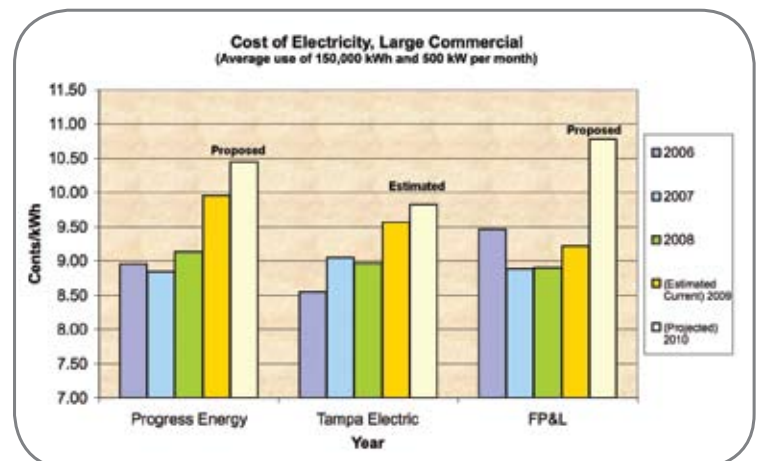
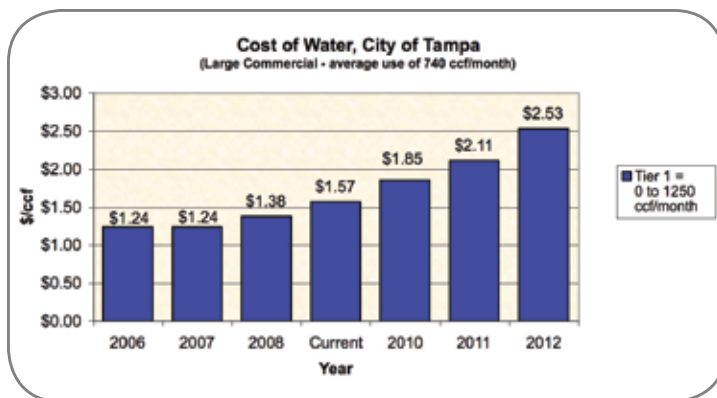
**If the chiller does not have redundancy, is expected to be kept for a long time, or is tied to a BAS system, the available options include:**

- Purchase spares. Best when the chiller will be replaced in less than 5 years.
- Purchase a new Trane Adapti-View panel. Best when the chiller will be kept for more than five years or when there is a BAS system or when your customers wants better control and reports.
- Replace the chiller. Best if existing chiller’s reliability, efficiency, capacity or maintenance costs no longer meet expectations.

**What can you do?**

- If you have an interest in reviewing Trane Service Engineering Bulletin ECTV-PRB011-EN please contact Eva Johns and she will provide you with a copy.
- If you would like Tampa Bay Trane to provide you with a proposal on the spare parts you feel you might need or on an Adapti-View Panel please contact Eva Johns or discuss the matter with your TBT sales representative or TBT Service Technician.

## Electrical Power and Water Cost Tracking



## Tampa Bay Trane & Southwest Florida Trane



**Educational Courses For HVAC Professionals**  
September 2009 - April 2010

# 2009-2010 Tampa Bay Trane Training Schedule

*TBT announces its 2009-2010 Training Schedule featuring 5 new courses and many new opportunities to expand the student's knowledge. For more information, please visit the Training section of TBT's Web site at [tampabaytrane.com](http://tampabaytrane.com) or contact Eva Johns at TBT.*

### **Tampa Bay Trane has the LEED!**

LEED Accredited Professionals:

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Doug Cohn  
Stephen Koontz  
Matt Kruse  
Tony Moreland  
Alex Rangel  
Keenan Sanz  
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Matt Tooley  
Casey Vaughan  
Josh Wand



## **Tampa Bay Trane/Southwest Florida Trane**

902 N. Himes Avenue  
Tampa, FL 33609  
813-877-8251

6461 Topaz Court  
Ft. Myers, FL 33966  
239-275-9420

For questions or comments  
please contact:

**Sandy Tulecki**  
[sdtulecki@trane.com](mailto:sdtulecki@trane.com)

**Eva Johns**  
[eva.johns@trane.com](mailto:eva.johns@trane.com)

(813) 877-8251