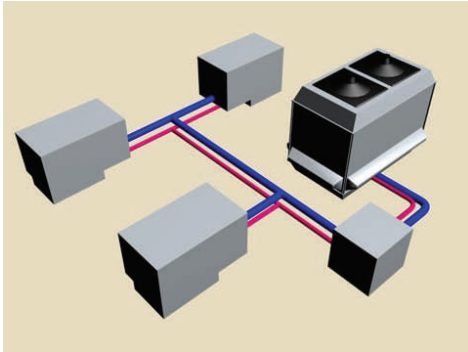


One 30-ton Demand-Buster

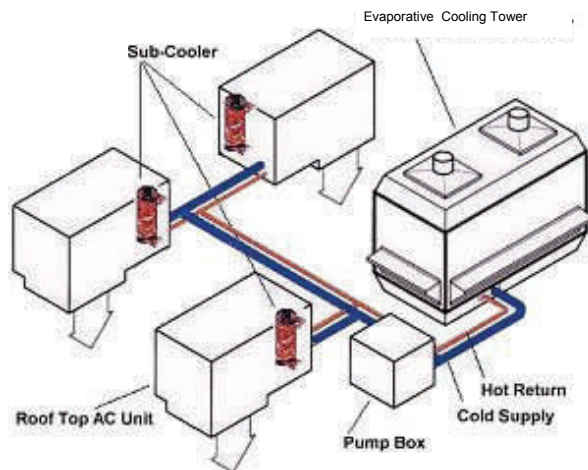
Servicing three 10-Ton commercial roof top units.



This Energy Efficiency retrofit will yield reductions of peak kW demand from 30% - 60%. Don't replace your unit!

Let us show you how we can retrofit your existing HVAC system and **SAVE** you Money. For years to come and **Warranty your existing system!**

NO other competitor will do this!



Why Retrofit ?

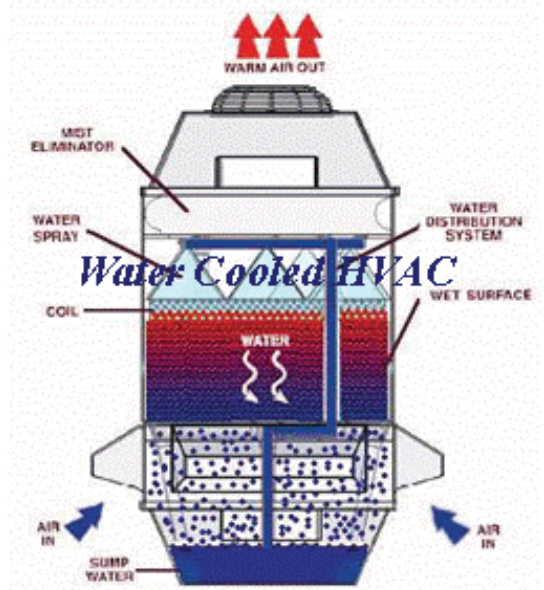
Thermco Energy Systems offers the Demand-Buster Evaporative Sub Cooling Retrofit system can utilize your existing AC compressor, and if needed we can add a new high efficient scroll compressor. The largest amount of savings occurs during the heat of the day thereby offsetting expensive peak demand charges that many utilities are now charging commercial customers. Many utilities offer rebate or financial incentive programs aimed at commercial users of peak kW demand. A Demand-Buster HVAC Retrofit can double the operating efficiency at a portion of the cost of replacing the existing equipment, and qualify for utility demand reduction program incentives. The Demand Buster Subcooling evaporative fluid cooler tower is the only closed circuit tower that is lightweight enough to be installed on a roof with out structural upgrades. The unique design of the Demand-Buster Thermal-Loop system allows one fluid cooler to service a number of roof top HVAC systems.

- 30%-60% Reduction in Peak kW
- Up to 17 EER Performance
- Patented Technology
- Proven Commercial Water Cooling Technology
- Requires no Structural Upgrades
- Engineered for Commercial Roof-Top Retrofit Applications
- Light Weight, Modular, Durable, Low Maintenance
- Proven Record of Operational Success
- 15 Year Limited Warranty



Energy Conservation Products

Thermco Energy Systems has emerged as a supplier of proven technologies, one being a unique line of, lightweight, modular, evaporative cooling towers. Ultra-Efficient HVAC Indoor Comfort Systems that address the need for efficiency in commercial applications. The water cooled line of Ultra-Efficient HVAC systems and components that utilize proven technologies that have been used in large commercial and industrial HVAC systems for many years.

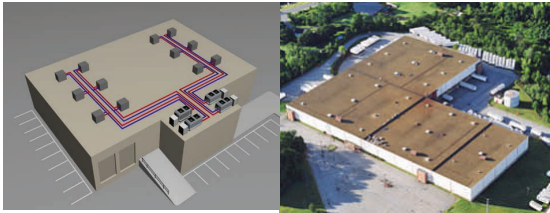


Retrofit Commercial HVAC & Refrigeration

A poor layout installation design like this is costing thousands to operate. These units are trying to cool hot refrigerant pipes with hot air.



Confined installation traps the hot air then recycles it to try and cool again. This alone and take into consideration the Urban Heat Island effect, these units are in need of an Evaporative Fluid Cooling Tower. We make comfort affordable and energy efficient.



No matter how the existing layout looks, we can retro fit it.



Incorporate Warehouse or Store Refrigeration.



Small to Large Retrofit Applications

The Closed Circuit Cooling Tower is the heart of the Demand-Buster HVAC Retrofit System, Hybrid Geothermal Systems, and Water Cooled Commercial Chillers. They are also perfectly suited to many waste heat applications that call for high efficiency fluid coolers

The four unique design features of the Evaporative Cooling Tower with advanced coil technology contribute to the reduced propensity to scale, and lower energy consumption:

1. Low Velocity Updraft Air Flow: Improved water coverage around the tubes is due to lower airflow in an updraft path over the evaporative condenser coil, maintaining full tube coverage. With lower airflow, velocity the spray water is not stripped from the underside of the tubes by the airflow; thus eliminating scale-promoting dry spots.

2. Increased Water Flow Over Coil: The over-lapping coverage of the non-fouling spray nozzles along with a water flow rate over the coil area that is more than a conventional evaporative condenser is unique to the TFEC. This provides continuous flooding of the primary heat transfer surface for decreased scaling potential.

3. Evaporative Cooling Occurs Primarily in Evaporative Media: The TFEC Evaporative Condenser incorporates advanced technology using both primary and secondary heat transfer surfaces. The primary heat transfer surface, the serpentine evaporative condenser coil, is the most important as well as the most expensive component in the evaporative condenser. The coil of the TFEC is protected from detrimental scale since it relies primarily on sensible heat transfer and therefore is less susceptible to scale formation than are other designs that rely primarily on latent (evaporative) heat transfer. The technology behind the secondary heat transfer surface, the PVC wet media, has been proven scale resistant and durable for more than 30 years in cooling tower applications. More than 80% of the latent heat transfer occurs in the secondary surface, moving the evaporation away from the primary heat transfer surface.

4. Colder Spray Water: Spray water at colder temperatures has a lower propensity to form scale because scaling compounds remain in solution rather than depositing as solids on the evaporative condenser coil. In the TFEC the spray water over the coil is colder than other evaporative condenser designs due to the addition of the secondary heat transfer surface. The colder sprayed water alone reduces the scaling potential by 25% compared to other designs. This is above and beyond the reduction achieved by the other three unique design features.

- **Construction:** All fiberglass cabinet cannot corrode. High quality materials throughout. High Efficiency evaporative condenser design.
- **Water Spray Nozzles:** Durable plastic, non-corrosive and non-fouling.
- **Fans:** Aluminum body, High Efficiency multi-speed fan motors, epoxy-coated frame, precision balanced plastic blades for quiet, trouble-free service.

Commercial Ultra-Efficient HVAC Systems

Ultra-Efficient HVAC commercial systems utilizing the evaporative condenser and evaporative sub cooling tower technology.

A product line with unparalleled performance, designed specifically for high temperature climates. Utilizing technology normally associated with the industrial sector, the company has perfected the ultimate in energy efficient water-cooled air conditioning systems for the light commercial market.

The evaporative fluid cooler technology together with the highest efficiency fans, pumps, and heat exchangers are utilized in the design and production of the Demand-Buster Evaporative Condenser HVAC Retrofit products, Water Cooled Ultra-Efficient HVAC Systems, and Hybrid Geothermal Ultra-Efficient HVAC Systems.

This patented retrofit technology incorporates a closed circuit, evaporative cooling tower in a pre-engineered Thermal-Loop system that convert existing roof top air conditioners from high KW demand air-cooled condenser systems to low kw demand, Ultra-Efficient water-cooled evaporative condenser systems.

Dealer Inquires Welcomed

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