



## **Coolater<sup>TM</sup>** **Ice-Based Thermal Storage**

- > **30% lower refrigeration energy** than other systems that use 22F Brine, plus the use of "water-only" Chilled Fluid yields **15% lower base pumping energy** and no risk of contamination.
- > Able to measure available cooling capacity stored.
- > Operates in closed-loop configuration. Lower CHW temperature means **45% smaller pumps and piping** and able to provide lower air temps- **50% smaller AHUs and ducts required** and lower air temps reduces moisture, allowing 80F, 35% RH rooms (comparable to 73F, 50%) so reduced thermal transfer for **15% lower A/C loads- 60% lower capital costs PLUS Total Energy Savings of over 60%.**
- > Virtually UNLIMITED rates of cooling capacity for storage and discharge AND 200% more thermal storage per cubic meter- **fewer storage units required for more capital savings.**
- > **Total HVAC system can yield CO2 and NOx savings of over 60% compared to normal HVAC systems.**