

Water-Cooled Equipment utilizing cooling towers has always had substantial energy savings over Air-Cooled Equipment. Now more than ever, given the typical energy savings of 40%, water-cooled equipment is the design choice. One misconception is that air-cooled will save significant water compared to water-cooled, when in fact, the additional energy required for air-cooled equipment will consume water at the power plant energy source and can even require more water.

#### Energy Efficiency

Recently adopted addendum I to ASHRAE 90.1 added minimum efficiency standards for both **axial** and **centrifugal fan** cooling towers. The minimum efficiency values are greater than 38.2 gpm/hp for **axial fan** and 20.0 gpm/hp for centrifugal fan cooling towers at 95°F entering water, 85°F leaving water, and 75°F wet bulb temperature. All Delta standard cooling tower models exceed these energy efficiency performance levels.

U.S. Green Building Council LEED credits are available for buildings complying with ASHRAE 90.1 minimum efficiency standards above.

Delta was also the first cooling tower manufacturer to standardize on NEMA® Premium Efficiency Motors

#### Sustainability

The ultimate in sustainability is a cooling tower that can outlast the building it services. Delta's non-corroding engineered plastic design, backed by 15-Year shell warranty, will not rust corrode or require the downtime for service that traditional metal towers require. Traditional metal towers that last 7 to 15 years or less in many applications, confront owners with disposal issues including environmental impacts, higher maintenance costs, and replacement costs.

#### Designed Green

Delta's engineered plastic design allows the most aggressive water treatment options available. This can allow users to run at higher cycles of concentration, thereby, saving make-up water. These savings can be very large and help solve water issues.

The counterflow designs have less of an environmental impact than crossflow designs by improved thermal performance and other environmental impacts. Crossflow designs will have much greater water splash out with high winds, especially when fans are off at low-load or low wet-bulb situations. Delta towers keep the water totally enclosed and free from sunlight lessening opportunity for biological growth requiring extra water treatment chemicals. Counterflow models also can incorporate the industry's best drift eliminators at .001% or even .0005% of the re-circulating flow.

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