6 Ways to Improve Water & Air Flow within your cooling tower

WARM AIR OUT

6 Control air flow

With the help of your gear-drives, cycle fans appropriately to control air flow and check fan blade pitch to help increase the airflow within your cooling tower.

1 Water source & quality

The source and quality of water will affect your cooling tower's thermal design and water distribution.

Understand how to manage water quality and water treatment solutions based on the water source and microbiology make-up in your system. This will help prevent clogging and additional damage from dirt, debris, microbes and other concentrations within the water distribution system.

HOT WATER IN

5 Maintain or repair water distribution parts

Improve water flow by maintaining efficiency of:

- Nozzles
- Fill
- Drift Eliminators

Each of these components optimize water and air distribution, increasing total thermal performance.

2 Water usage:

Your cooling tower's thermal requirements will help to determine your cooling tower size and required water capacity, measured in gallons per minute (gpm).

Calculate water usage here:

water usage calculator

DRY AIR IN

3 Control water temperature

Utilize gear drive speeds, like the variable frequency drive, to control the cooling tower approach and cold water temperature in coordination with your wet-bulb temperature.

The more control there is over cold water temperatures and air flow, the better your tower will establish an increase in performance and efficiency.

COLD WATER OUT

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4 Total dissolved solids (TDS)

Each time your cooling tower water cycles, the TDS concentrates increase. Thus finding the balance between water concentration and introducing new make-up water is important to component function and cooling efficiency. TDS concentrates can also be managed with filters, water softeners or other water treatment plans. Each solution has its pro's & con's.