

# cooling tower performance

## BASIC THEORY AND PRACTICE

### Total Heat Exchange

An open-circuit cooling tower, commonly called a cooling tower, is a specialized heat exchanger in which two fluids (air and water) are brought into direct contact with each other to affect the transfer of heat. In a "spray-type" cooling tower shown in **Figure 1**, this is accomplished by spraying a flowing mass of water into a rain-like pattern, through which an upward moving mass flow of cool air induced by the action of a fan.

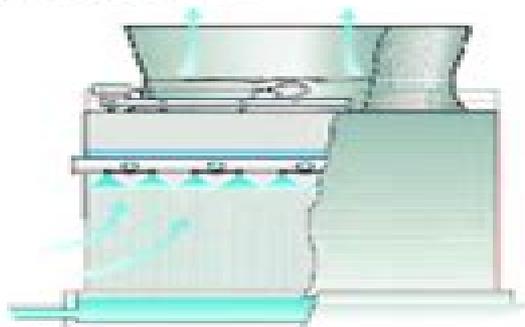


FIGURE 1

Ignoring any negligible amount of sensible heat exchange that may occur through the walls (casing) of the cooling tower, the heat gained by the air must equal the heat lost by the water. Within the air stream, the rate of heat gain is identified by the expression  $G(h_2 - h_1)$ , where:

- $G$  = mass flow of dry air through the cooling tower — lb/min
- $h_1$  = enthalpy (total heat content) of entering air — Btu/lb of dry air
- $h_2$  = enthalpy of leaving air — Btu/lb of dry air

Within the water stream, the rate of heat loss would appear to be  $L(t_1 - t_2)$ , where:

- $L$  = Mass flow of water entering the cooling tower — lb/min
- $t_1$  = Hot water temperature entering the cooling tower — °F
- $t_2$  = Cold water temperature leaving the cooling tower — °F

This derives from the fact that a Btu (British thermal unit) is the amount of heat gain or loss necessary to change the temperature of 1 pound of water by 1°F.

However, because of the evaporation that takes place within the cooling tower, the mass flow of water leaving the cooling tower is less than that entering it, and a proper heat balance must account for this slight difference. Since the rate of evaporation must equal the rate of change in the humidity ratio (absolute humidity) of the air stream, the rate of heat loss represented by this change in humidity ratio can be expressed as  $G(H_2 - H_1)(t_2 - 32)$ , where:

- $H_1$  = humidity ratio of entering air — lb vapor/lb dry air
- $H_2$  = humidity ratio of leaving air — lb vapor/lb dry air
- $(t_2 - 32)$  = an expression of water enthalpy at the cold water temperature — Btu/lb (the enthalpy of water is zero at 32°F)

Including this loss of heat through evaporation, the total heat balance between air and water, expressed as a differential equation, is:

$$Gdh = Ldt + GdH(t_2 - 32) \quad (1)$$

The total derivation of equation (1) can be found in *A Comprehensive Approach to the Analysis of Cooling Tower Performance* available from SPX Cooling Technologies.

### Heat Load, Range and Gallons per Minute

The expression "Ldt" in equation (1) represents the heat load imposed on the cooling tower by whatever process it is serving. However, because pounds of water per unit time are not easily measured, heat load is usually expressed as:

$$\text{Heat Load} = \text{gpm} \times R \times 8.33 = \text{Btu/min} \quad (2)$$

Where:

- gpm = water flow rate through process and over tower — gal/min
- $R$  = "range" = the difference between the hot and cold water temperatures — °F (see Figure 3)
- 8.33 = pounds per gallon of water

# Cooling Tower Journal

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