

EVAPORATIVE COOLING SYSTEM



Evaporative Cooling System

The evaporative cooling technology is an energy-efficient alternative to compressor-based cooling. In dry and arid regions, evaporative cooling can meet most or all building cooling loads using one-fourth the energy of conventional equipment. It can also be applied cost effectively when integrated with conventional chiller systems, which can greatly improve a facility's load profile. Unfortunately, evaporative cooling requires an abundant water source and is only effective when the relative humidity is low, restricting its efficient use to dry climates.

The rudimentary basis for understanding any air conditioning, dehumidification and evaporative cooling is psychometrics. Psychrometry consists of the interactions between heat, moisture and air. It is basically the study of air-water mixtures and is an essential foundation for understanding, how to change air from one condition to another. As air temperature rises, its capacity to hold moisture rises and warmer air becomes less dense. This makes moisture a very influential factor for heat gain, both for comfort and in calculations. The knowledge of systems consisting of dry air and water vapor is essential for the design and analysis of air cooling devices, and industrial processes requiring close control of the vapor content in air. Air moisture and heat interactions are rather the basic.

We shall offer wide range of products as per the requirements of applications and location by proper design and integration of system

For More details please contact



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