



WATERSIDE ECONOMIZERS



Many air conditioning and industrial cooling systems require chilled water throughout the year. During fall, winter and spring, a system's cooling tower or closed circuit cooling tower can produce water cool enough to eliminate the need to operate a chiller. This process is known as waterside economizer, evaporative chilling or free cooling and can reduce or eliminate mechanical cooling for much of the year in many climates.

Details

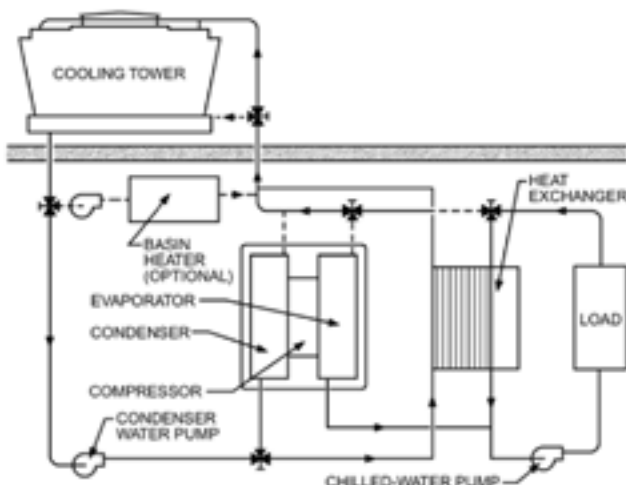


How It Works

According to typical meteorological year data, a waterside economizer can provide water at a sufficiently low temperature for cooling a

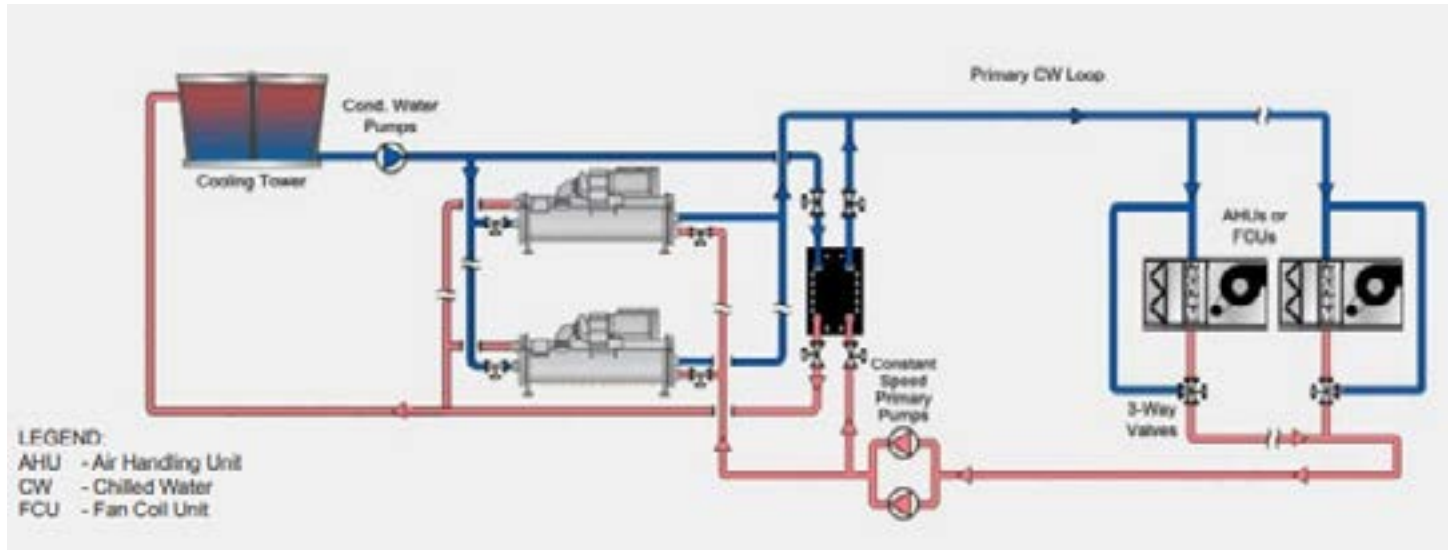
building more than 4,000 hours per year in Las Vegas and almost 6,000 hours per year in Reno, saving significant energy. Customers can use waterside economizers to save energy whenever outside wet bulb temperatures drop below the required chilled water set point and can save enough compressor electric power to pay back the cost in one to four years.

Waterside economizers are a straightforward concept that customers can apply to new and existing water-cooled projects with relative ease. While customers will incur the cost of operating the tower, chilled water pumps and tower fans, money is saved by operating a cooling tower fan motor that consumes approximately 0.2 kW/ton rather than a chiller compressor motor that consumes between 0.6 kW/ton and 0.8 kW/ton. The system allows cost-conscious building or process owners and operators to take advantage of naturally occurring climate conditions to save system operating costs.



Contact NV Energy Business Energy Services for assistance with your system to ensure that it is eligible for an incentive and that all guidelines have been followed. For this type of technology, incentives are calculated based on a custom measure approach and paid based on calculated annual energy savings.

Cooling Tower and Heat Exchanger Free Cooling System



Funding is limited—apply today!

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