

CHILLED WATER & RO FILTER

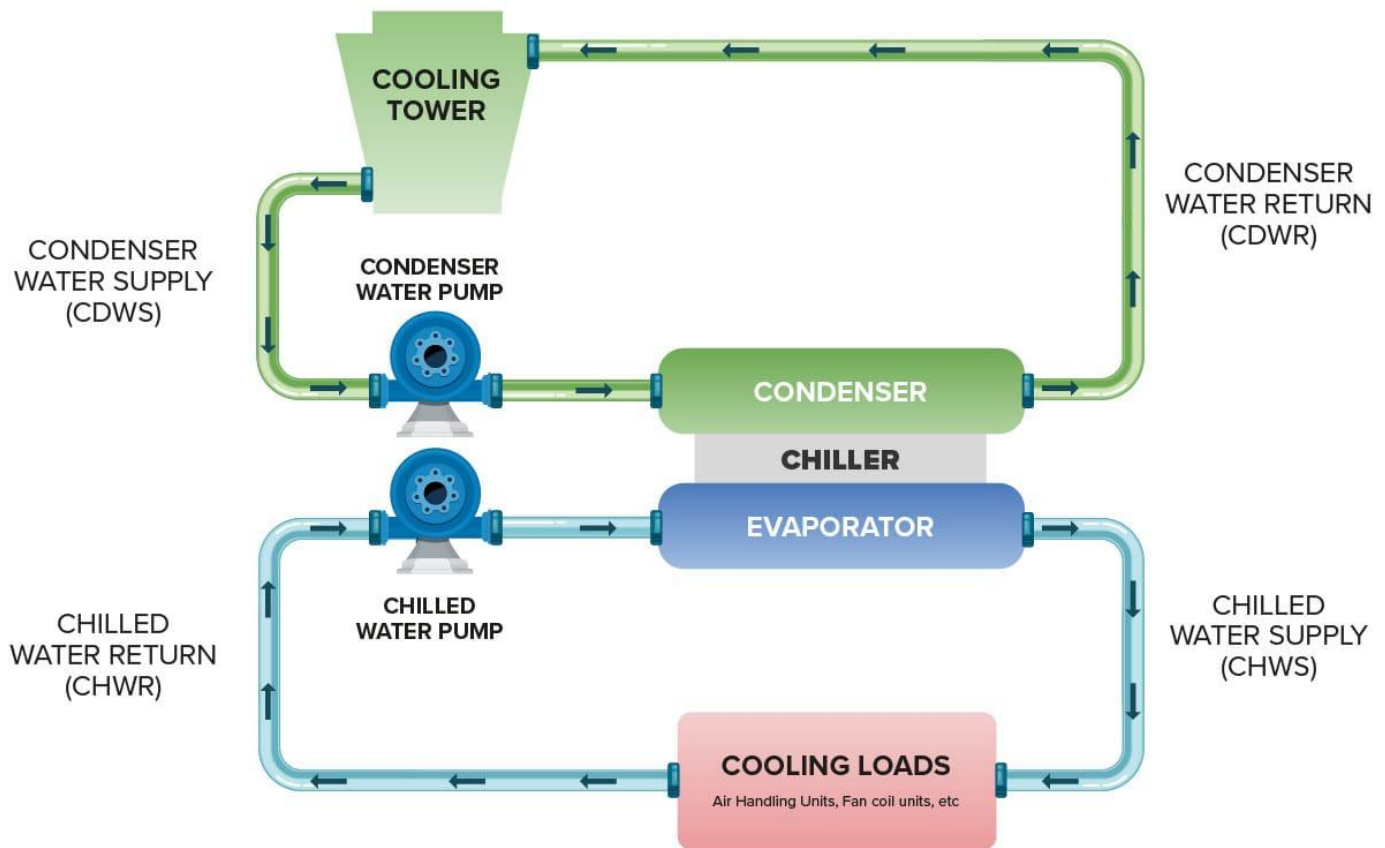
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Chiller & Evaporator System



Chiller plant is a centralized cooling system that removes heat from a liquid—typically water or a water-glycol mixture—using a refrigeration cycle. This chilled liquid is then circulated through a building or industrial process to maintain precise temperatures for machinery, products, or occupant comfort.

An evaporator is essential because it serves as the primary heat absorber in cooling systems and the main separation tool in industrial manufacturing. Without it, air conditioners cannot cool spaces, refrigerators cannot preserve food, and industries cannot concentrate products or treat wastewater.

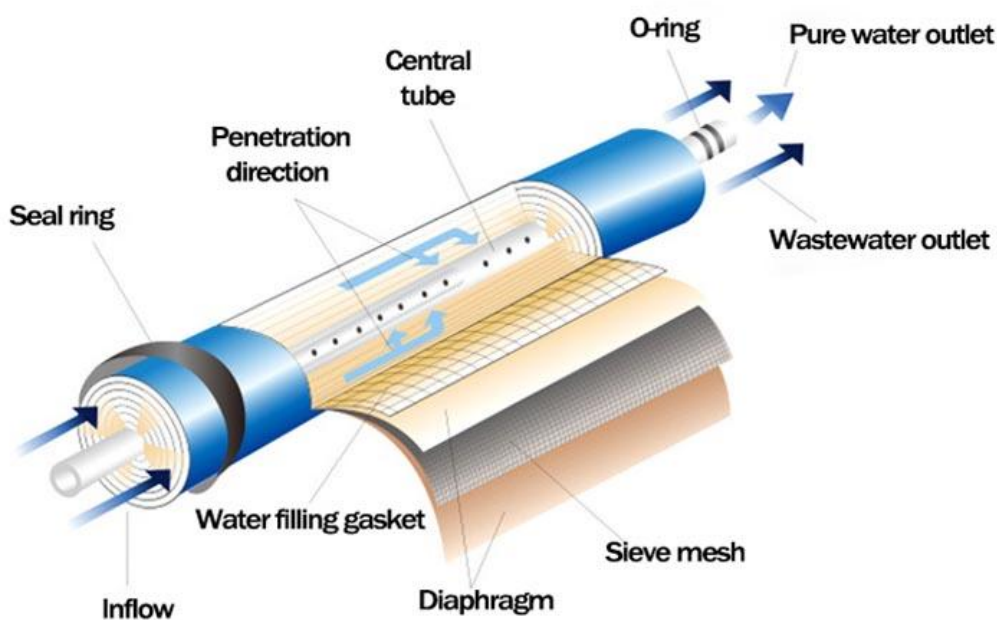
This visual layout highlights how different systems configure evaporators to handle specific operational demands.

The primary function of an evaporator is to absorb heat from its surroundings to cool down a specific space, air, or liquid. It acts as the main cooling component in refrigeration, air conditioning, and heat pump systems.

Reverse Osmosis Plant & Membrane Filter



An industrial RO (Reverse Osmosis) plant is a large-scale water purification system designed to remove dissolved solids, salts, organic impurities, and heavy metals from water using a semi-permeable membrane.



An Reverse Osmosis (RO) membrane filter is the core purification stage of an RO water filter system. It acts as a physical barrier that removes up to 99% of dissolved solids, heavy metals, bacteria, and viruses from water by forcing it through microscopic pores under pressure.