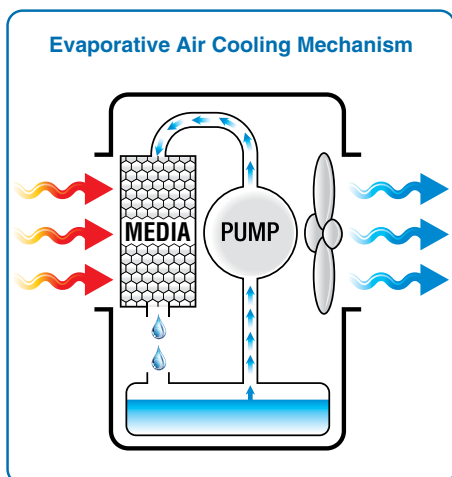


How Does an Evaporative Cooler Work?

Cool Efficient Natural

Evaporative cooling is the natural way of cooling, similar to a breeze flowing across a lake. The air temperature is lowered due to its contact with the water and has a relaxing, cooling effect on people.

An evaporative cooler cools the air by means of the evaporation of water. When water evaporates into the air, the result is a state change of water from liquid to gas molecules. This chemical change requires heat, thus energy, or latent heat, is taken from the warm air molecules creating a drop in the air temperature.



The recommended maximum relative humidity is 60% or less, to allow a noticeable temperature decrease. The temperature decrease will be larger in



dryer climates because the lower humidity allows for more evaporation.

tively as refrigerated air conditioning in humid climates.

When used for cooling, the evaporative cooler should not be used in enclosed spaces. It must be kept level and there must be water in the water tank. The room should have a door or window opened to allow free airflow. When using indoors, an evaporative cooler works best when placed near access to outside air or air-conditioned air. The maximum cooling effect is felt when a person is in the flow of the air coming from the evaporative cooler.

An evaporative cooler is not an air conditioner, as it does not use a compressor or refrigerant gas. One should not expect an evaporative cooler to work as effec-



However, the advantages of evaporative cooling over air conditioning are:

- Low purchase cost
- Low electricity usage
- Environmentally friendly (No refrigerant gas)
- Maximum portability

*Under tested conditions, actual performance depends on unit and ambient condition.



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