

# EVAP COOLING

EVAPORATIVE OR ADIABATIC COOLING



## Evaporative cooling wall

The container, on the air intake side, will be filled from side to side with a EVAP cooling wall. To make sure the complete interior will be cooled. Easy connecting to the container before or after placement on location.



## Two evaporative media type options

- Cellulose paper that is chemically treated to resist deterioration
- PP plastic pads

Both in a honeycomb structure. As it passes through the honeycomb pad, water flowing over the pad absorbs heat from the air causing the water to evaporate. This results in cooler, moisturized air.

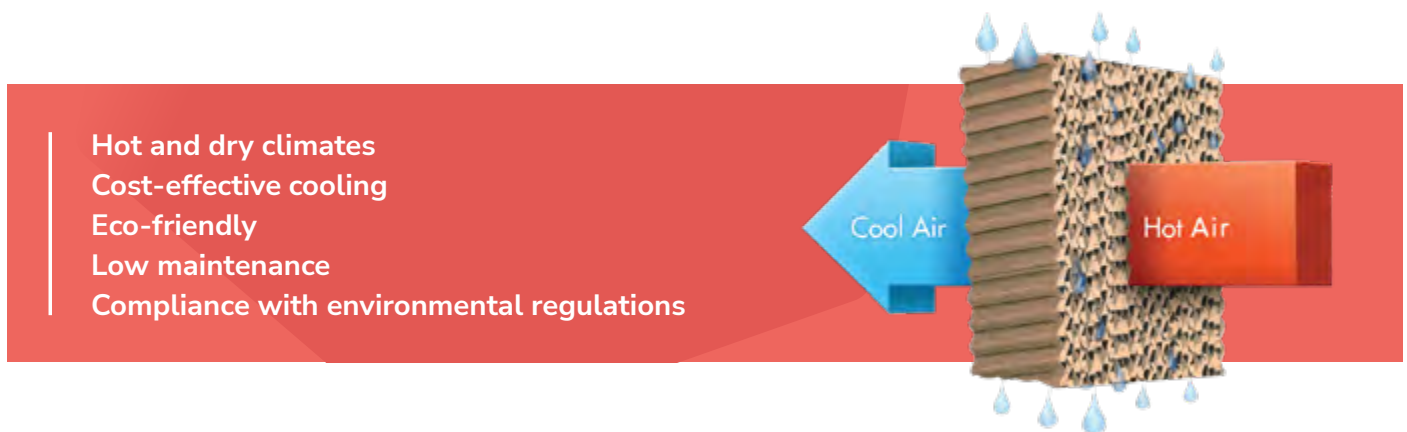
# EVAP COOLING

## EVAPORATIVE OR ADIABATIC COOLING

Evaporative or adiabatic cooling is a sustainable and energy-efficient method used in containers to maintain optimal temperatures for the machines inside. This cooling technique harnesses the principle of evaporation, where water transforms into vapor, absorbing heat from the surrounding air.

Evaporative (adiabatic) cooling works most effectively in hot and dry climates. In hot and arid conditions, where the air is dry and has low humidity, the evaporation process is highly efficient, resulting in significant temperature drops.

In contrast, in humid climates where the air already contains a considerable amount of moisture, the effectiveness of evaporative cooling diminishes. This is because the air has less capacity to absorb additional moisture through evaporation, reducing the cooling impact. Therefore, evaporative cooling systems are particularly well-suited for regions with high temperatures and low humidity levels.



### Hot and dry climates

Ideal for regions with high daytime temperatures and low humidity levels, offering cost-effective and energy-efficient cooling solutions for containers.

### Cost-effective and eco-friendly

Evaporative cooling systems use water as a cooling medium, reducing operational costs and environmental impact, providing a sustainable and compliant option.

### Low maintenance and simple design

With a straightforward design, these systems require minimal maintenance. Regular checks ensure optimal performance, making them a reliable and hassle-free cooling solution for containers.

### Regulatory compliance and sustainability

Evaporative cooling aligns with environmental regulations and sustainability initiatives. It's a compliant and forward-thinking choice, contributing to reduced carbon footprint in temperature control for containers.