

SONOMACOOOL

 Introducing Sonoma Cool—The Smart Way to Cool



 Still cooling wet air? Dry the air first—and save up to 25% of your HVAC electricity usage!

Combine natural evaporation tools—salt, water, and heat—for exceptional HVAC performance using nature’s dehumidification strategy!

Energy efficient + cost effective

Reduce the load on the whole system—HVAC, refrigeration, and cooling.

Rapid ROI

Energy savings zero out capital costs—often in less than 2 years.

Exercise climate control

Stay in the comfort zone all day long—even in the most humid climates.

Improve air quality

Lower humidity stops toxic mold and mildew before it takes hold.

Easy to maintain

Smooth installation and low-cost maintenance.

Cut demands

Reduced RH demands improve supermarket refrigeration system performance.

Works with Solar!

Product Information

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Why Sonoma Cool?

Sonoma Cool uses simple tools found in nature's condensation cycle—salt, water, and heat—to reduce your HVAC system's latent moisture load. By removing the water first, Sonoma Cool saves energy—and saves you money!

We call this the “Dehumidify-first approach.” For commercial air conditioning, it means:

- Better performance
- Lower energy costs
- Staying in the temperature and humidity comfort zone
- With an industry-leading COP of 1.15!

Commercial HVAC

- Supermarkets and refrigerated warehouses
- Hospitals and laboratories
- Shopping malls, movie theaters, ice rinks
- Office buildings
- Process industries
- Any commercial interior where managing heat and humidity poses a challenge

How it works

Sonoma Cool employs innovative liquid desiccant technology. The system, which seamlessly interfaces with the building's established HVAC system, consists of:

A conditioner—the conditioner employs concentrated liquid desiccant plus cold water to dry fresh air before cooling.

A regenerator—the regenerator uses low-grade heat to return the diluted desiccant from the conditioner back to its concentrated state.

Two heat exchangers—the heat exchangers improve the overall efficiency of the unit.

Cool water options (for the conditioner)

- Cooling tower
- Ground source cooling
- Existing chilled water
- Seawater

Heat source options (for the regenerator)

- Solar thermal or solar hot air PVT array
- Low-grade waste heat
- Hot water heater
- Bio-fuels
- Co-generation

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