



## ENERGY SAVER PRECOOLERS

Evaporative Cooling Systems Built for Efficiency and Reliability

Energy Saver designs and manufactures state-of-the-art, microprocessor-controlled precooler systems that are highly reliable, energy-efficient, and low maintenance.



### What Is A Precooler?

A precooler uses the principle of evaporative cooling to reduce the temperature of the air before it reaches the condenser coils, helping HVAC systems operate more efficiently and reducing overall energy consumption.

### How Do They Work?

Evaporative precoolers rely entirely on the evaporation of water for operation. As water moves downward through the media, drawn by the air velocity of the condenser fan, some of the water evaporates. This evaporation cools the air before it reaches the condenser coil. This pre-cooled air reduces the cooling load on the main HVAC system, improving energy efficiency and potentially increasing system capacity, especially in hot, arid climates.



## Energy Saver Precooler Systems – Benefits

### System Efficiency Savings – Reduce Energy Costs & Extend the Life of Equipment

- Shortens “run times” because of lower discharge temperatures.
- Lowers operating and maintenance costs.
- Increases A/C efficiency by up to 30%.
- Achieves maximized efficiency with the innovative microprocessor regulated (MPR) water supply system.
- Ensures maximum airflow and minimum static drop to significantly reduce energy costs and extend the life of air conditioning or refrigeration equipment.

# PRECOOLERS

## Ease of Customization, Installation, and Maintenance



Install and maintain with ease - includes mounting transitions when applicable.



Add 5-10 inches of useable precooler height due to eliminating the need for sump and pump.



Customize for specific applications and climate conditions.



Eliminate routine cleaning and removal of airborne debris on condenser coils.

## Design Guide Data

All Energy Saver evaporative precooler systems are designed, engineered and manufactured to attach directly to the condenser section of air conditioning or refrigeration equipment.

Most manufacturers provide data regarding the operation of the air conditioning unit across a broad range of ambient temperatures. This information can be used to determine the efficiency that can be obtained using an evaporative precooling system.

Contact Energy Saver for Design Guide data or visit [energysvr.com](http://energysvr.com) to view the *Design Guide Data* brochure.

## CellCool Evaporative Modules

Each Energy Saver CellCool is custom engineered and sized to match the CFM of the air-handling unit to provide the most effective evaporative cooling configuration possible.

### Simplified Installation

The design, hardware, and factory installed plumbing make installation easy.

### Evaporative Media

The modules utilize evaporative media constructed of self-supporting, long-lasting, rigid cellulose-based Kraft paper.



## About Energy Saver

Based in Phoenix, Arizona, Energy Saver operates out of a 55,000-square-foot manufacturing facility dedicated to delivering innovative cooling solutions.

**Contact Us to Learn More** - Our Engineering, Sales, and Customer Service Teams Are Here to Help!

[energysvr.com](http://energysvr.com)

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