



EVAPORCOOL™

THE COOLEST WAY TO SAVE ENERGY.

SIMPLY PUT, THE
EVAPORCOOL™
SYSTEM MAKES YOUR
AIR CONDITIONER
THINK AND BEHAVE
AS THOUGH IT IS
COOLER OUTSIDE
THAN IT ACTUALLY IS,
WHILE AT THE SAME
TIME KEEPING ITS
COILS CLEAN.

> AIR CONDITIONING COSTS ARE SKY ROCKETING. WE CAN HELP

HVAC accounts for between 40 percent and 60 percent of a typical commercial building's energy bill. Even for mid-sized companies, energy costs can have a significant impact on your company's bottom line. The bad news is that energy costs are expected to rise.

The good news is there is a revolutionary product that dramatically lowers energy costs and is environmentally responsible – **Evaporcool™**. This patented and intelligent system is designed to significantly reduce energy use, especially during peak hours when electricity costs are highest.

EVAPORATIVE COOLING PERFECTED

Evaporative cooling can reduce the peak energy consumption of an air conditioning unit by as much as 35 percent. Evaporative coolers utilize the natural process of water evaporation along with an air-moving system. Unfortunately, prior commercial evaporative systems have been ineffective, inconsistent, inefficient and ultimately a liability to use. Thankfully, the effective, sophisticated and intelligent Evaporcool™ System is revolutionizing the way evaporative cooling is used in the commercial cooling industry. The Evaporcool™ System uses only a small amount

of water in its evaporative process, avoiding water run-off or recycling stagnant water.

SIGNIFICANT SAVINGS. LONGER LASTING UNITS

Imagine saving as much as 30 percent on your energy bill. With the Evaporcool™ System you can not only save significant amounts on your energy bill, but reduce peak energy demand, dramatically improve air conditioner efficiency, extend the life cycle of air conditioning units, protect coils from damage and debris, substantially reduce maintenance time and costs, and provide much colder air for a better working environment.

INCREASED ENERGY EFFICIENCY

Evaporating chilled water reduces the temperature of the air entering the condensing unit, providing a dramatically more efficient heat exchange. The Evaporcool™ System reduces energy consumption (kWh), demand (kW), and the probability of system failures; while increasing both the Energy Efficiency Ratio (EER) and extending the working life of the equipment.

REDUCED COIL FOULING

Coil fouling is the number one cause of commercial HVAC cooling system efficiency loss and compressor failure. A system with dirty coils typically consumes 30 percent more energy and produces 10 percent less cooling, than a system with clean coils. The Evaporcool™ System filters out dirt and debris before they can damage a unit's coils. A clean unit runs more efficiently, requires less energy, increases the mean time between failures, reduces downtime and has a longer lifespan.

LESS MAINTENANCE

Imagine how much money you would save if you could dramatically reduce the number of times your condenser coils needed cleaning. On a typical unit, coils need to be cleaned once a quarter which can take a qualified (and expensive) HVAC technician up to eight hours or more and often requires a harmful chemical cleaner. The Evaporcool™ System dramatically decreases the need to perform regular coil cleanings.

THE COOLEST WAY TO SAVE ENERGY.

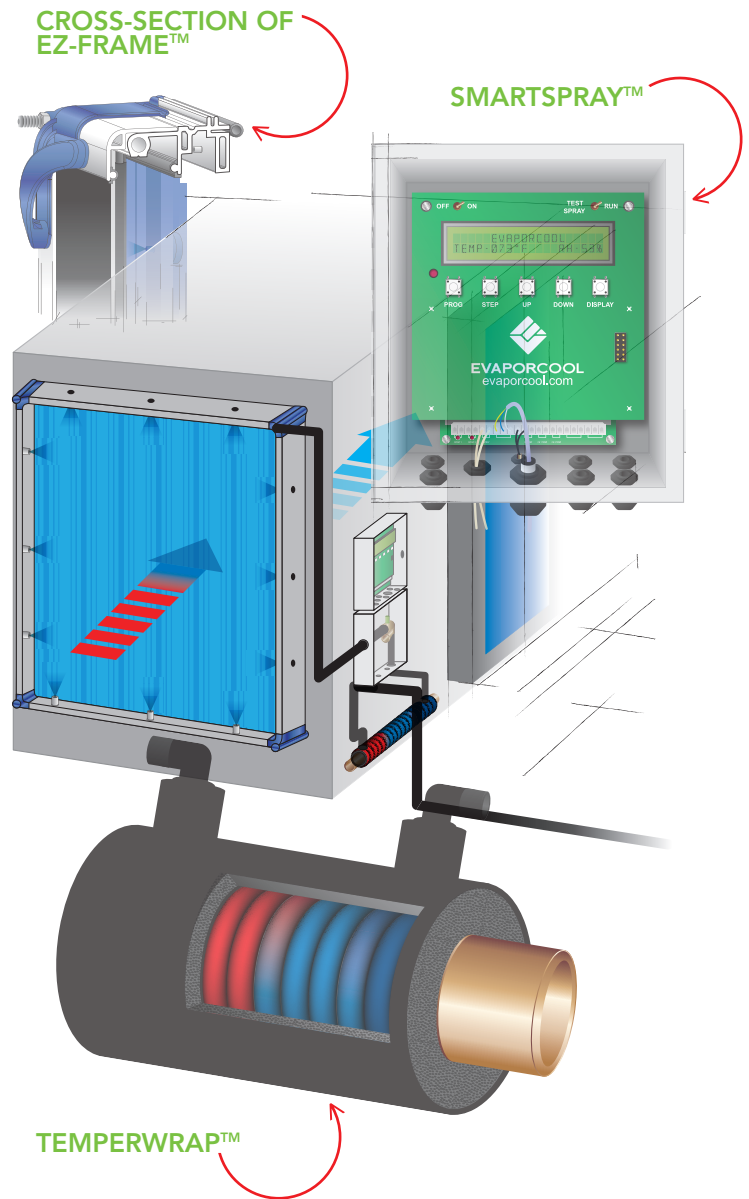
> A UNIQUE PRODUCT BASED ON A SIMPLE PRINCIPLE.

The Evaporcool™ System reduces the temperature of the air being pulled into an air conditioning unit. The cooler the air entering the coils, the less energy your condensing unit requires to release the heat. Each patented and patent-pending Evaporcool™ technology offers cooling efficiencies, but working in unison, they provide unparalleled cooling benefits.

Temperwrap™ our patented water refrigeration process reduces water temperature by as much as 20 degrees. The water is chilled without using any additional energy, before it is dispersed into the air. The chilled water is able to more effectively cool the air entering the condenser coil, resulting in a dramatic energy savings. To chill the water, the tubing that the water flows through is wrapped around the suction line of the HVAC unit. This process allows the water in the tubing to become cold through contact with the suction line.

EZ-Frame™, Evaporcool's™ proprietary frame system, provides a unique mechanism for protecting unit coils and creating a cool, moist micro-environment in which air temperature is lowered as it enters the air conditioning unit. The system is the result of years of controlled testing and engineering innovation. The filter frame and the screen frame have been engineered to protect your HVAC unit and provide optimal evaporation. Each component of the EZ-Frame™ is made of lightweight, high-strength industrial-grade plastic and attaches to your system noninvasively.

SmartSpray™ control panel is the brain of the Evaporcool™ System. It uses environmental data to dictate when and for how long, the frame will spray the refrigerated water onto the filter mesh. The SmartSpray™ control panel only operates the chilled spray when necessary, thereby reducing energy needs, conserving water and improving unit efficiency.



> Figure 1

As air passes through the EZ-Frame™ system it is cooled by evaporated chilled water. By cooling the air before it reaches a unit's coils, the Evaporcool™ System makes the unit think and perform as though the external air temperature is cooler than it actually is. This simple process can save 30 percent or more on your energy bill.

WITH SO MANY BENEFITS, EVAPORCOOL™ IS A SMART WAY TO LOWER YOUR COMPANY'S ELECTRICITY COSTS AND PEAK ENERGY DEMANDS.

EXTENDED EQUIPMENT LIFE

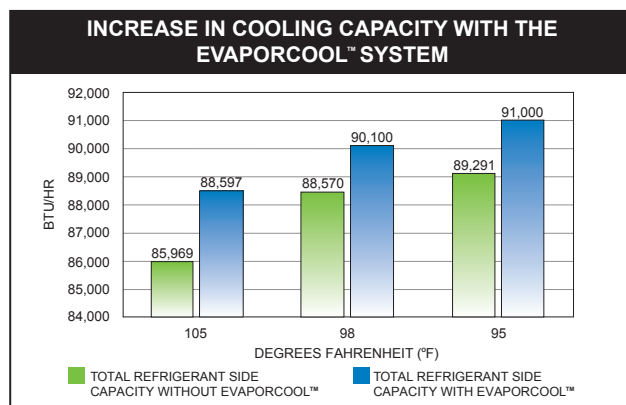
Replacing and repairing commercial HVAC cooling systems is expensive and time consuming. Evaporcool™ works with your existing system to extend its life and reduce the risk of system failures. Whether your system is brand new or whether you have existing problems with your current system, Evaporcool™ can help you get the most out of your commercial system.

REDUCED HEAD PRESSURE

The compressor in an air conditioning system is the primary energy consumer. It is designed to operate at a certain head pressure for a given load. High head pressure makes the system less energy efficient and can ultimately lead to a shut down of the system. Evaporcool™ reduces the head pressure of a system and increases the available tonnage of a unit.

MAKE THE SMART CHOICE

Evaporcool™ is a smart and cost effective way to lower your company's electricity costs and peak energy demands. Whether you are purchasing new equipment or need a way to extend the life of your existing unit, Evaporcool™ is the system for you. It is quick and easy to install and is attached magnetically to the exterior of your air conditioning unit. Each unit is customized to meet the needs of our clients and nothing is installed until it is tested in our laboratory.



> Figure 2

The unit's capacity to provide cooling (BTU/Hr) increases as the head pressure is reduced. The Evaporcool™ System reduces the head pressure by evaporating chilled water into the airstream before it enters the condenser coil. This makes the unit operate as if the outside air is cooler than it actually is.

