



EVAPORCOOLTM

3909 East Raines Road, Memphis, TN 38118

Phone: 901-367-7811 Fax: 901-367-7812

E-mail: ContactUs@evaporcool.com

www.EVAPORCOOL.com



EVAPORCOOL™

The Evaporcool™ System is a proprietary evaporative cooling system that works with virtually any existing air-cooled condensing unit.





EVAPORCOOL™

The Evaporcool™ System

- Reduces Energy Use
- Reduces Demand Charges
- Increases tonnage capability
- Improves the kW/Ton Ratio
- Reduces Head Pressure
- Increases system reliability
- Protects Coils from Debris and Damage
- Extends the life of HVAC equipment

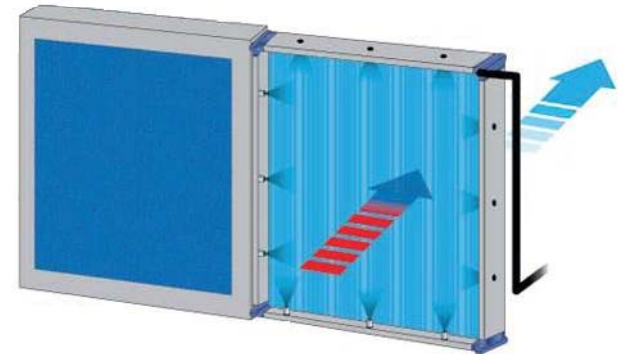
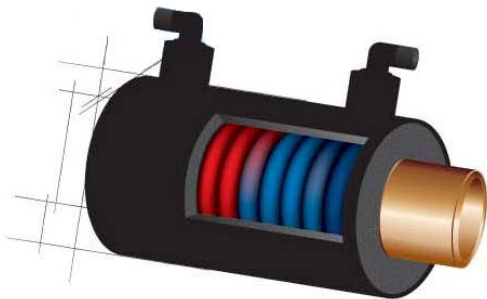


Proudly made in the USA



EVAPORCOOL™

The Evaporcool System
uses multiple proprietary
technologies.

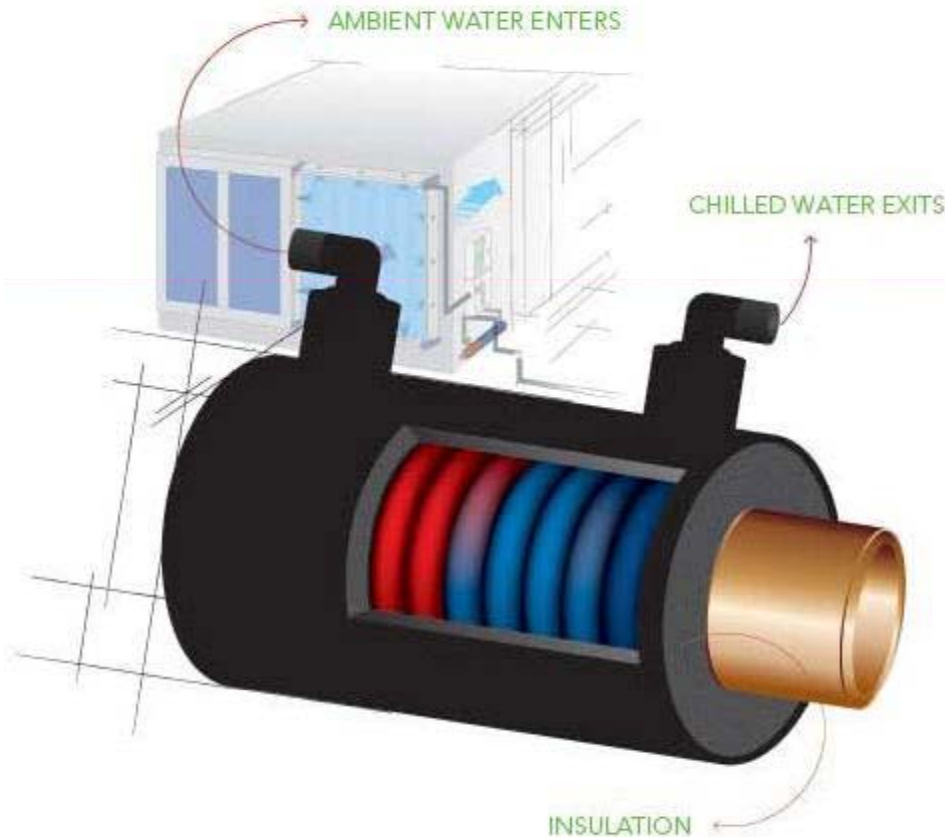




EVAPORCOOL™

Temperwrap™

Temperwrap™ is the Evaporcool™ System's patented process, which chills water by bringing it into contact with the cold suction line of the HVAC equipment. When evaporated, cold water cools the air more effectively than ambient water.





EVAPORCOOL™

SmartSpray™

The SmartSpray™ control box is the brain of the Evaporcool™ System. It monitors the external environment and the HVAC equipment in order to determine the optimal amount of water to evaporate into the air.

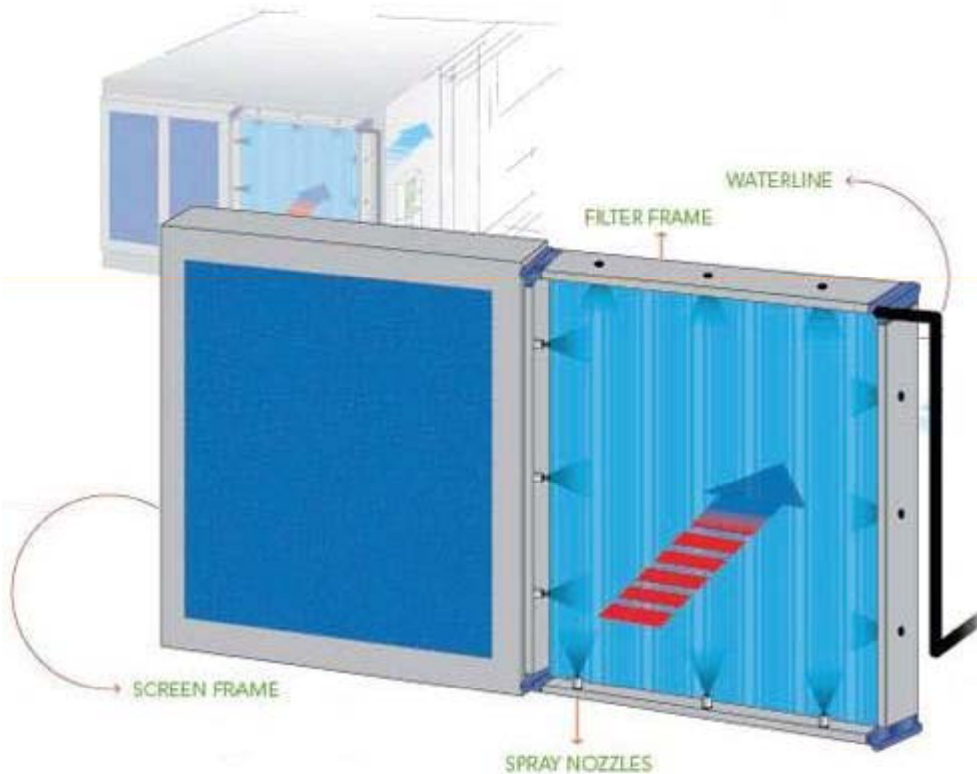




EVAPORCOOL™

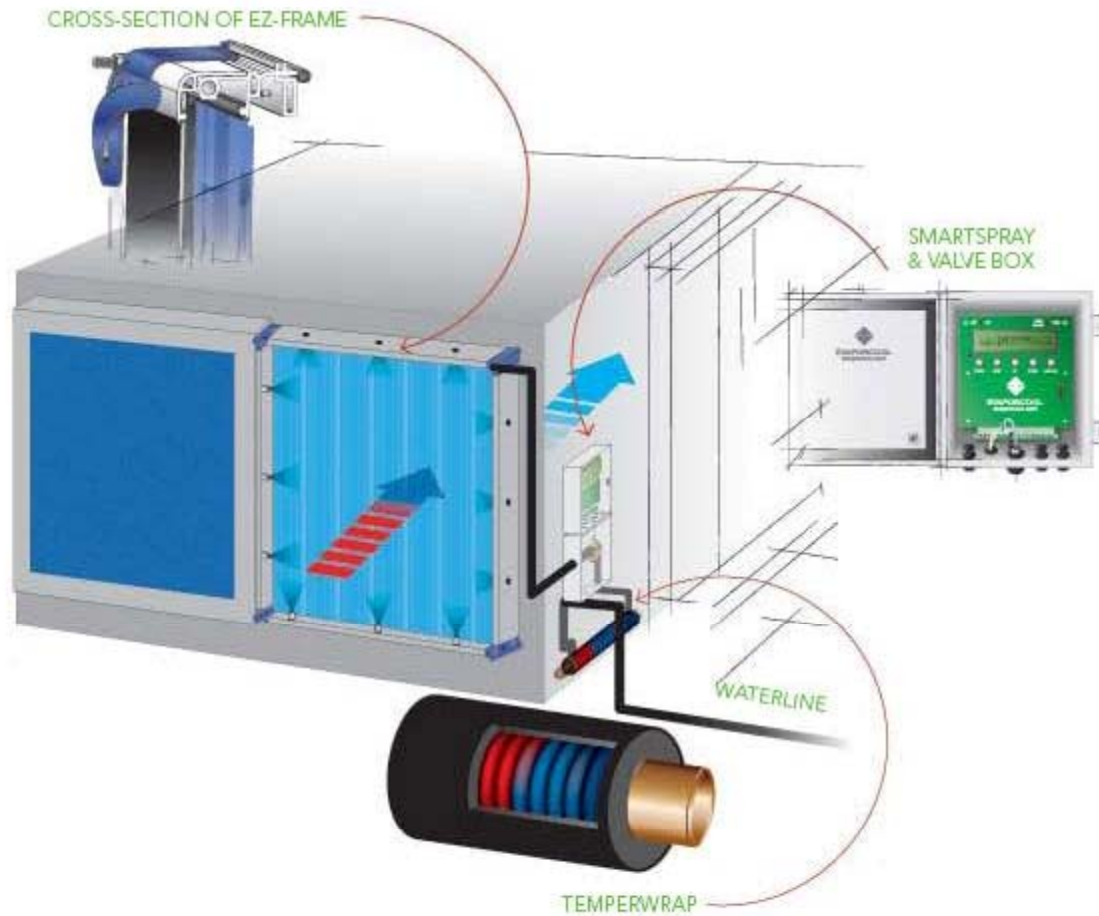
EZ-Frame™

The EZ-Frame™ framing system (patent-pending) provides a unique mechanism for protecting condensing coils, and creates a cool, moist micro-environment in which air temperature is lowered as it enters the air conditioning unit.





EVAPORCOOL™





EVAPORCOOLTM

Case Studies Prove Energy Savings

The following are actual results of prior installations. The results were monitored with precisely calibrated, independently verified equipment.

Case Study #1



Case Study #2





EVAPORCOOL™

Case Study #1: Energy Savings

40 Ton Packaged Condensing Unit in Cypress, TX

Installed for a Leading Telecommunication Company

(Summer 2008)

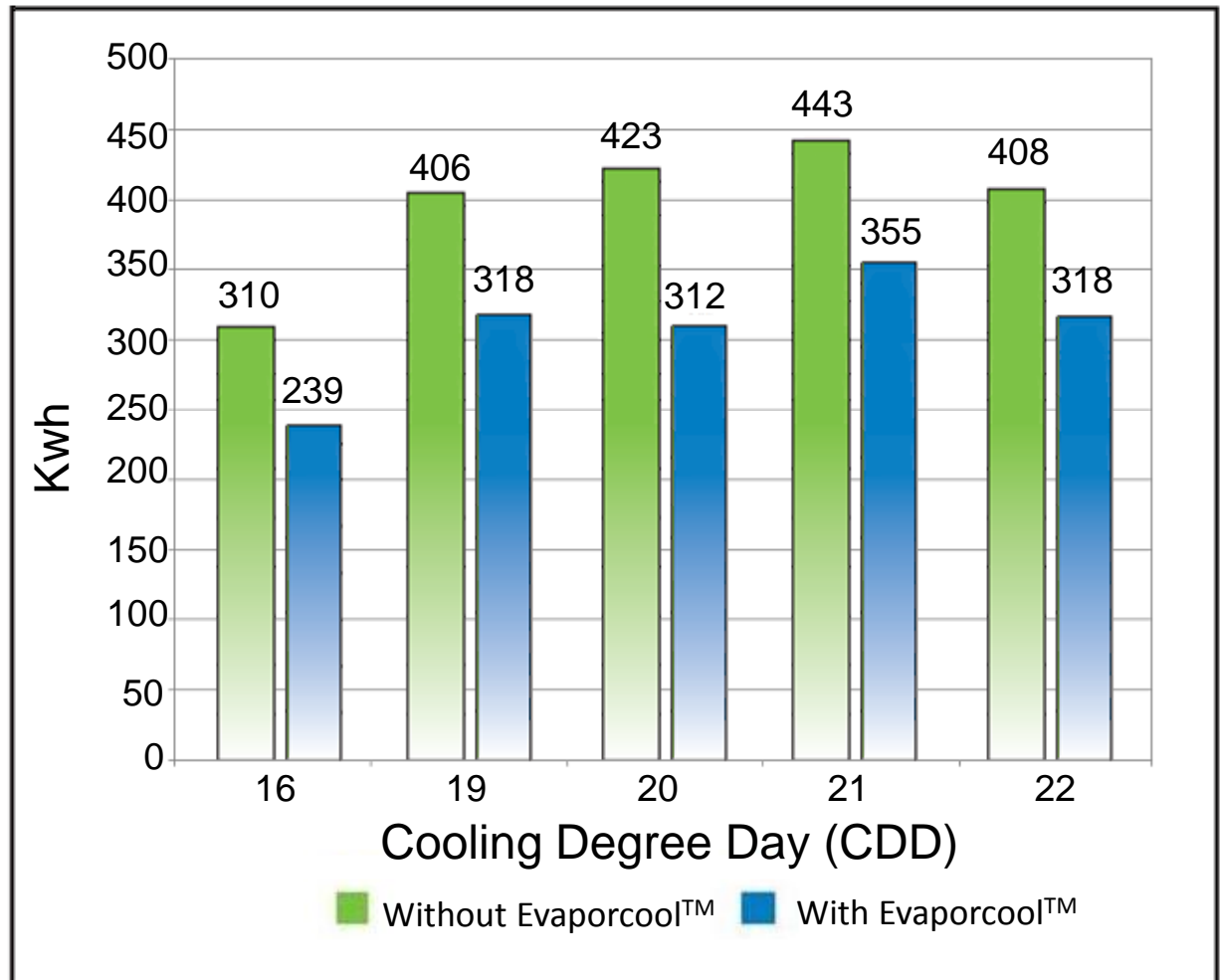




EVAPORCOOL™

Energy Savings

**Actual Results from a
40 Ton Packaged
Condensing Unit in
Cypress, TX
(Summer 2008)**



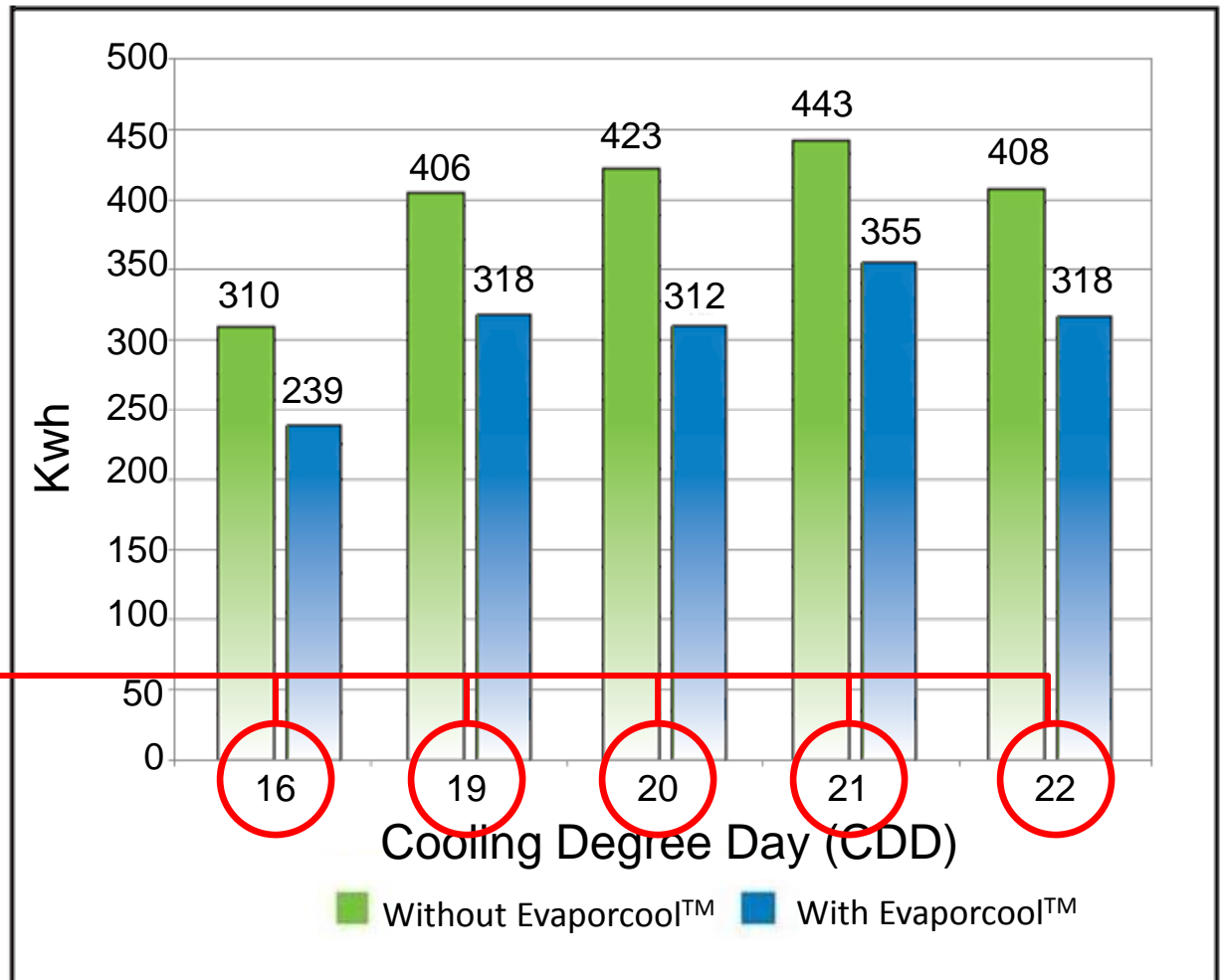


EVAPORCOOL™

Energy Savings

**Actual Results from a
40 Ton Packaged
Condensing Unit in
Cypress, TX
(Summer 2008)**

**Comparison of Kwh
used on similar CDD
days**



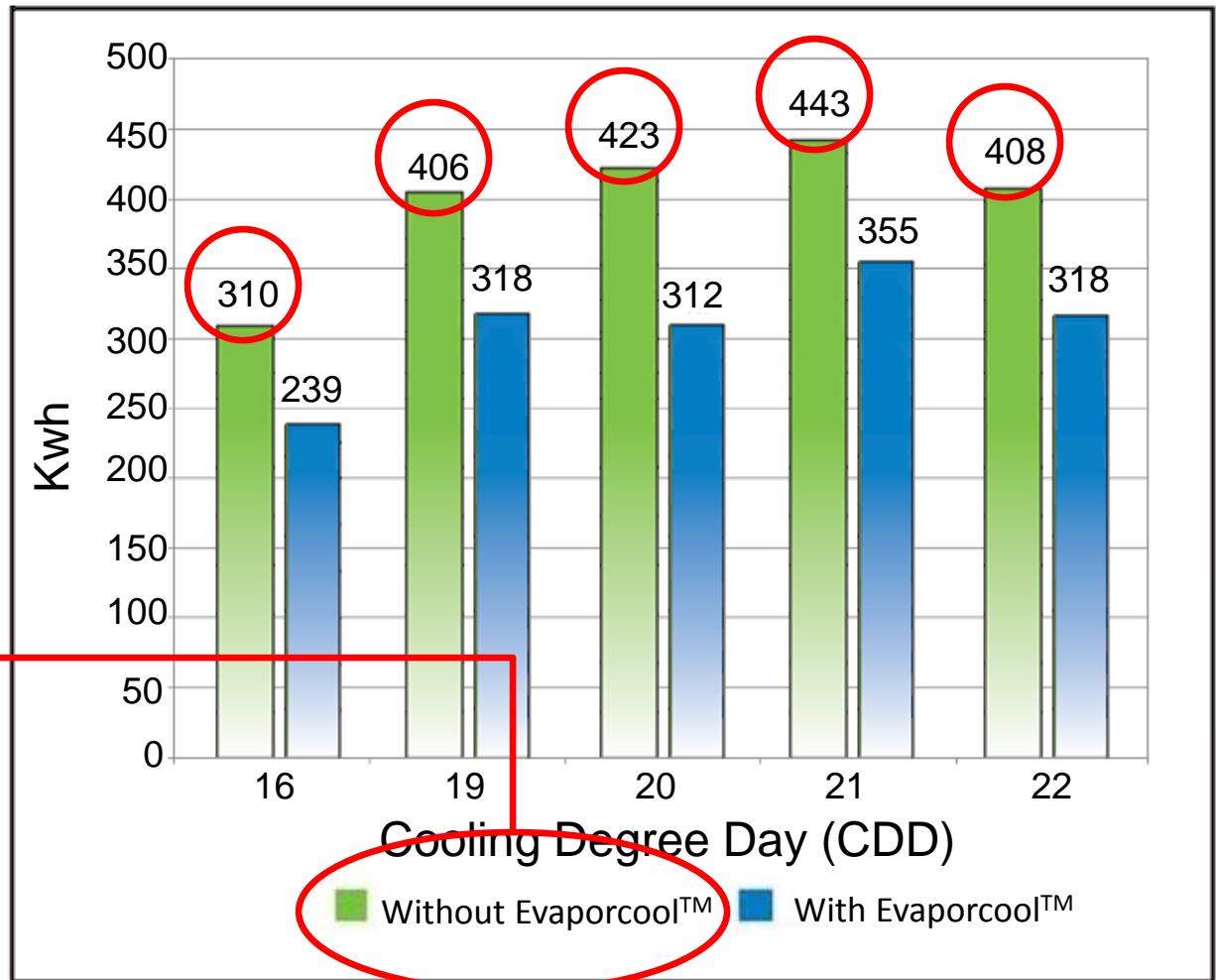


EVAPORCOOL™

Energy Savings

**Actual Results from a
40 Ton Packaged
Condensing Unit in
Cypress, TX
(Summer 2008)**

**Units Without the
Evaporcool System**



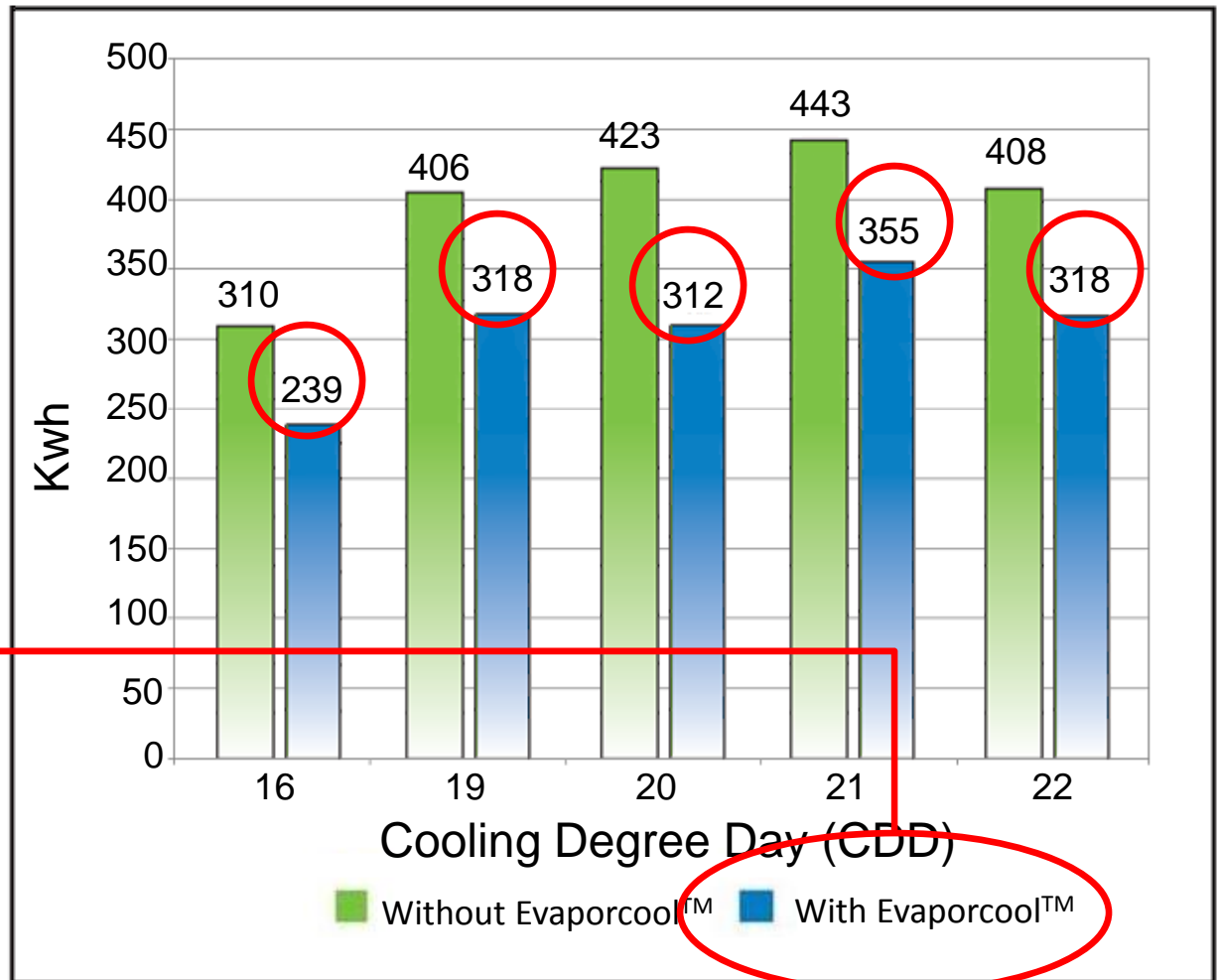


EVAPORCOOL™

Energy Savings

**Actual Results from a
40 Ton Packaged
Condensing Unit in
Cypress, TX
(Summer 2008)**

**Units With the
Evaporcool System**

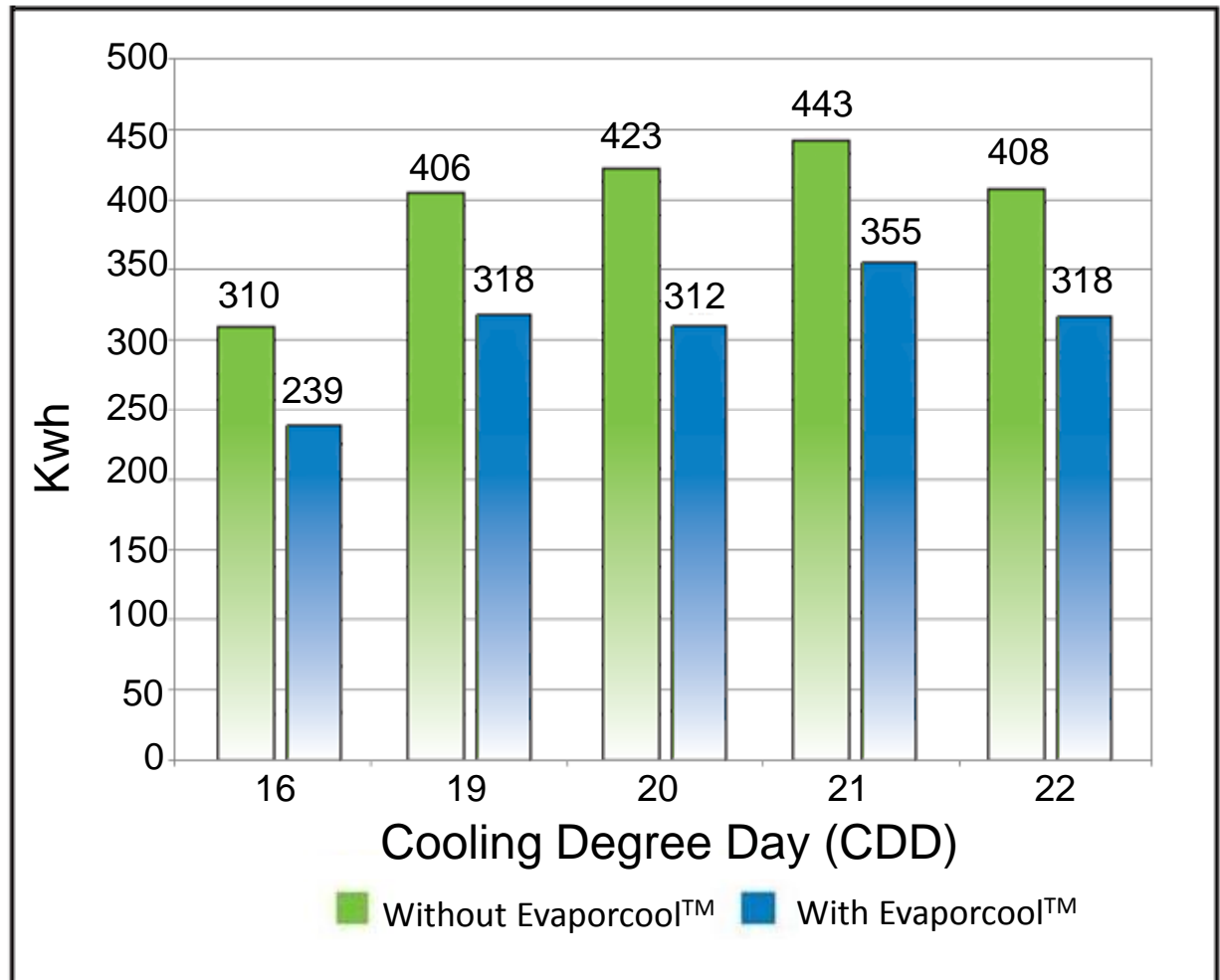




EVAPORCOOL™

Energy Savings

<u>CDD</u>	<u>% Savings</u>
16	22.9%
19	21.6%
20	26.2%
21	19.8%
22	22.0%





EVAPORCOOLTM

Case Study #2: Energy Savings

80 Ton Air Cooled Chiller in Memphis, TN

Installed on a Corporate Office Building

(Summer 2007)

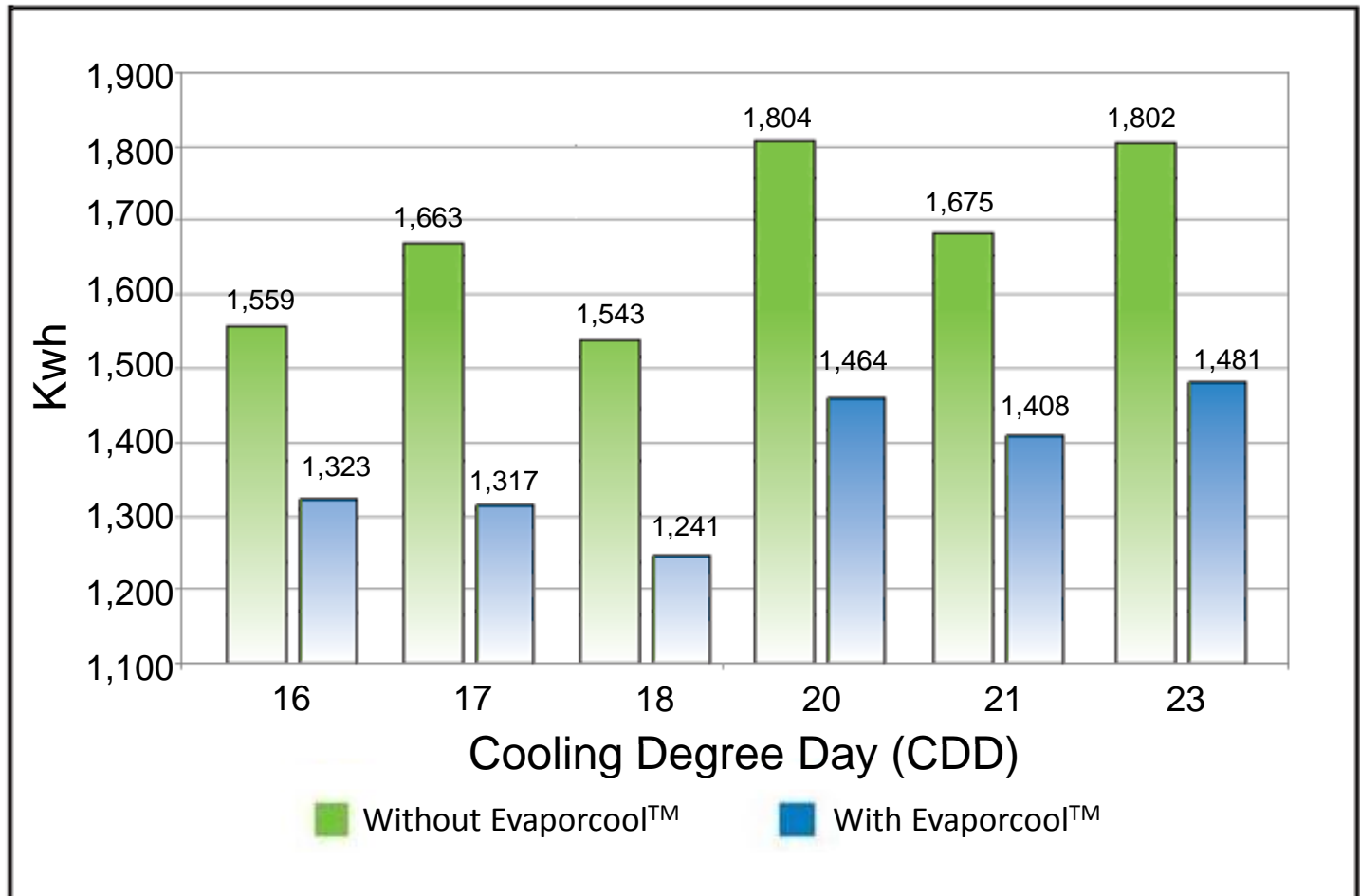




EVAPORCOOL™

Energy Savings

**Actual Results
from an 80 Ton
Air Cooled Chiller
in Memphis, TN
(Summer 2007)**

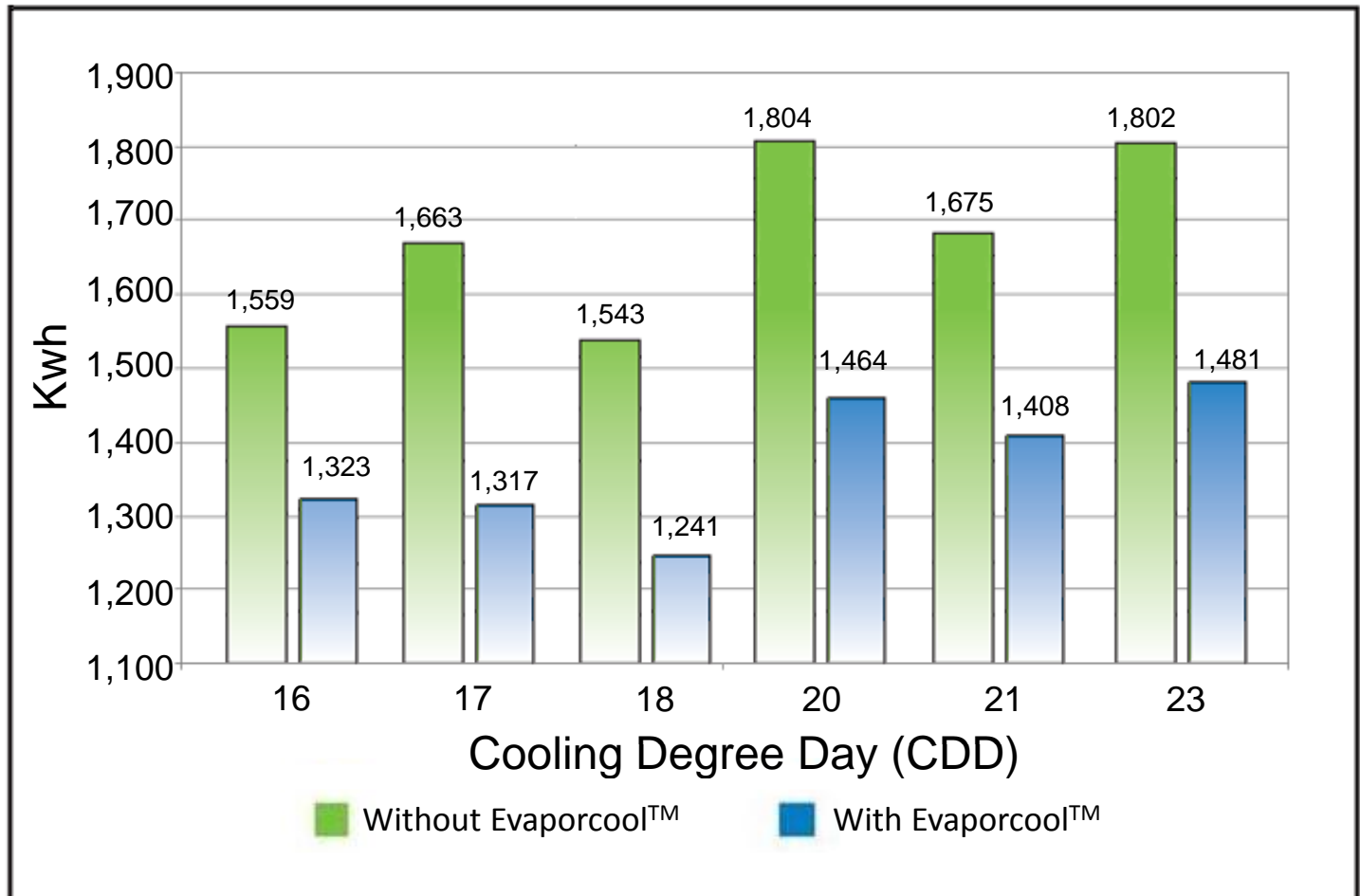




EVAPORCOOL™

Energy Savings

CDD	% Savings
16	15.2%
17	20.8%
18	19.6%
20	18.8%
21	15.9%
23	17.8%





EVAPORCOOL™

Peak Demand Reduction

The Evaporcool System reduces demand during peak hours, because that is when air conditioners are working their hardest.

“The peak electric load in summer is driven by air conditioning. Sub-par efficiency in America’s air conditioners makes blackouts more likely.”

– Alliance to Save Energy

“Air conditioning uses 30% of all electricity in the State during hot summer afternoons.”

– California Energy Commission

“Air conditioning drives Connecticut summer peak demand.”

– Conn. Dept of Public Utility Control

“In California, peak demand usually occurs on hot afternoons when air conditioners around the state are cranking to keep Californians cool.”

– California’s State Energy Program’s bimonthly newsletter



EVAPORCOOL™

Independently Verified Results...

The Evaporcool System was recently tested at Underwriters Laboratories Inc.'s 16,000 square foot state-of-the-art testing facility in Plano, TX.

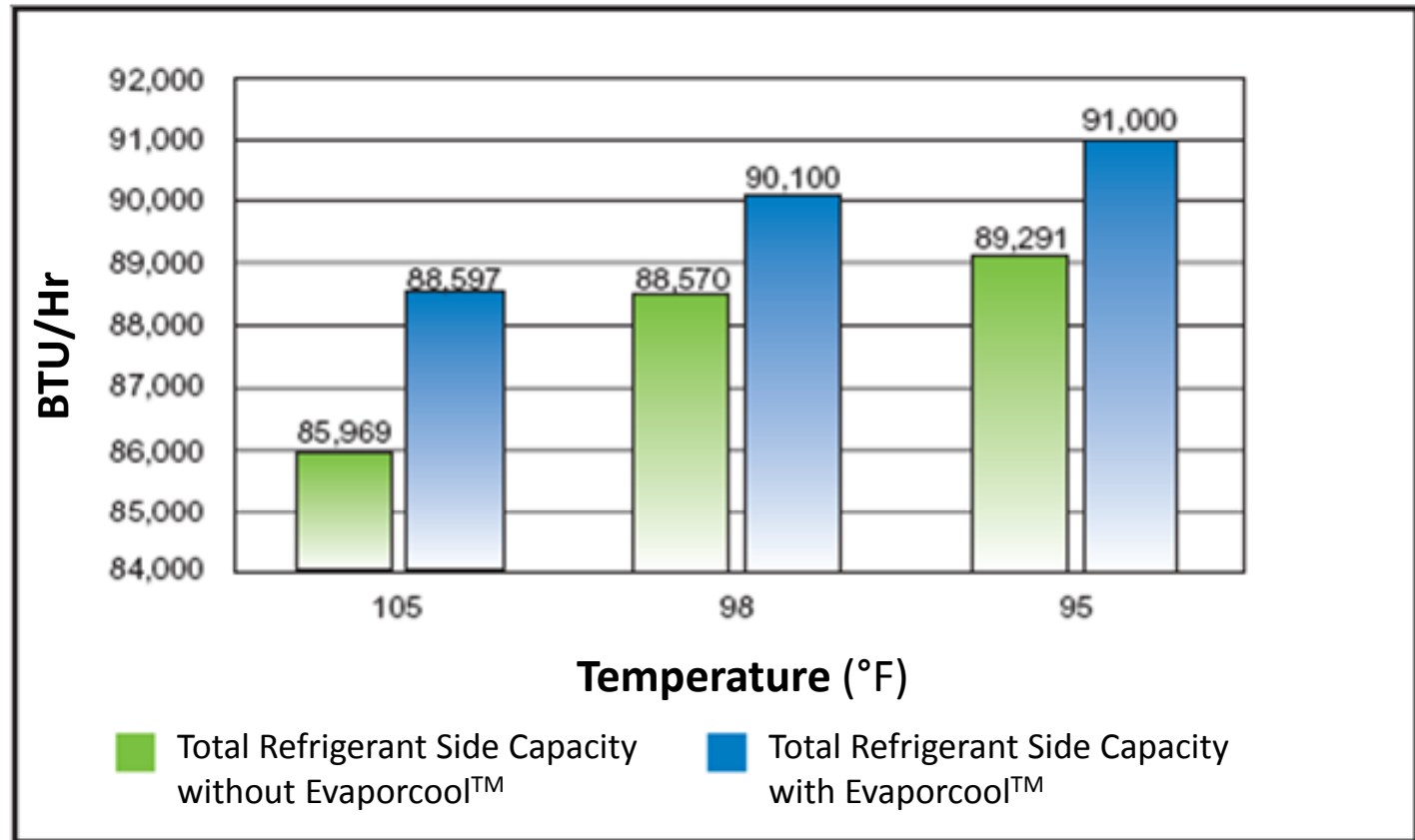
The testing was performed on a 7.5 ton DX style Air Conditioning System at 95°F, 98°F and 105°F.



EVAPORCOOL™

Actual Results From UL Testing...

Increased Cooling Capacity



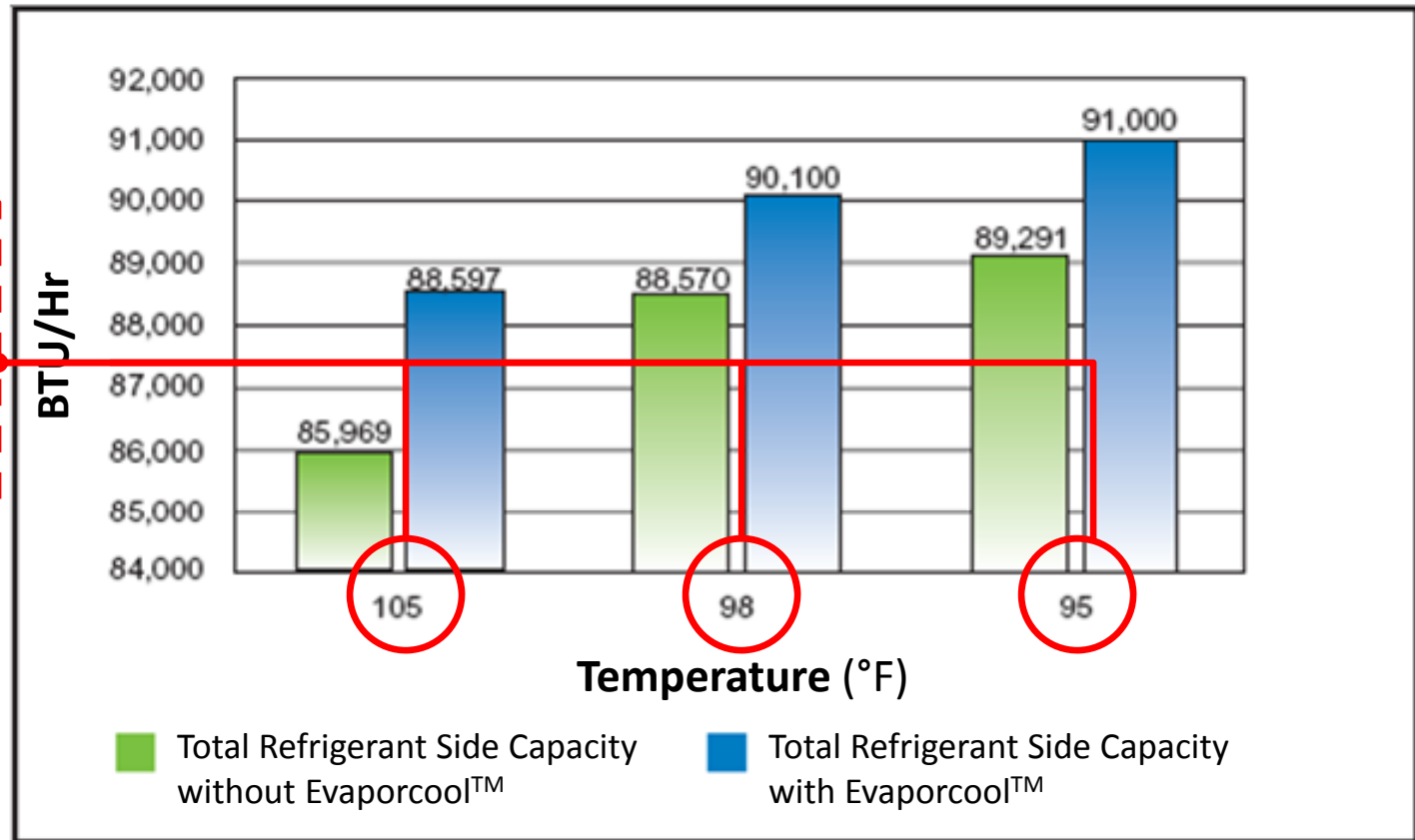


EVAPORCOOL™

Actual Results From UL Testing...

Increased Cooling Capacity

The Evaporcool System provides remarkable results even on the hottest days.





EVAPORCOOL™

Actual Results From UL Testing...

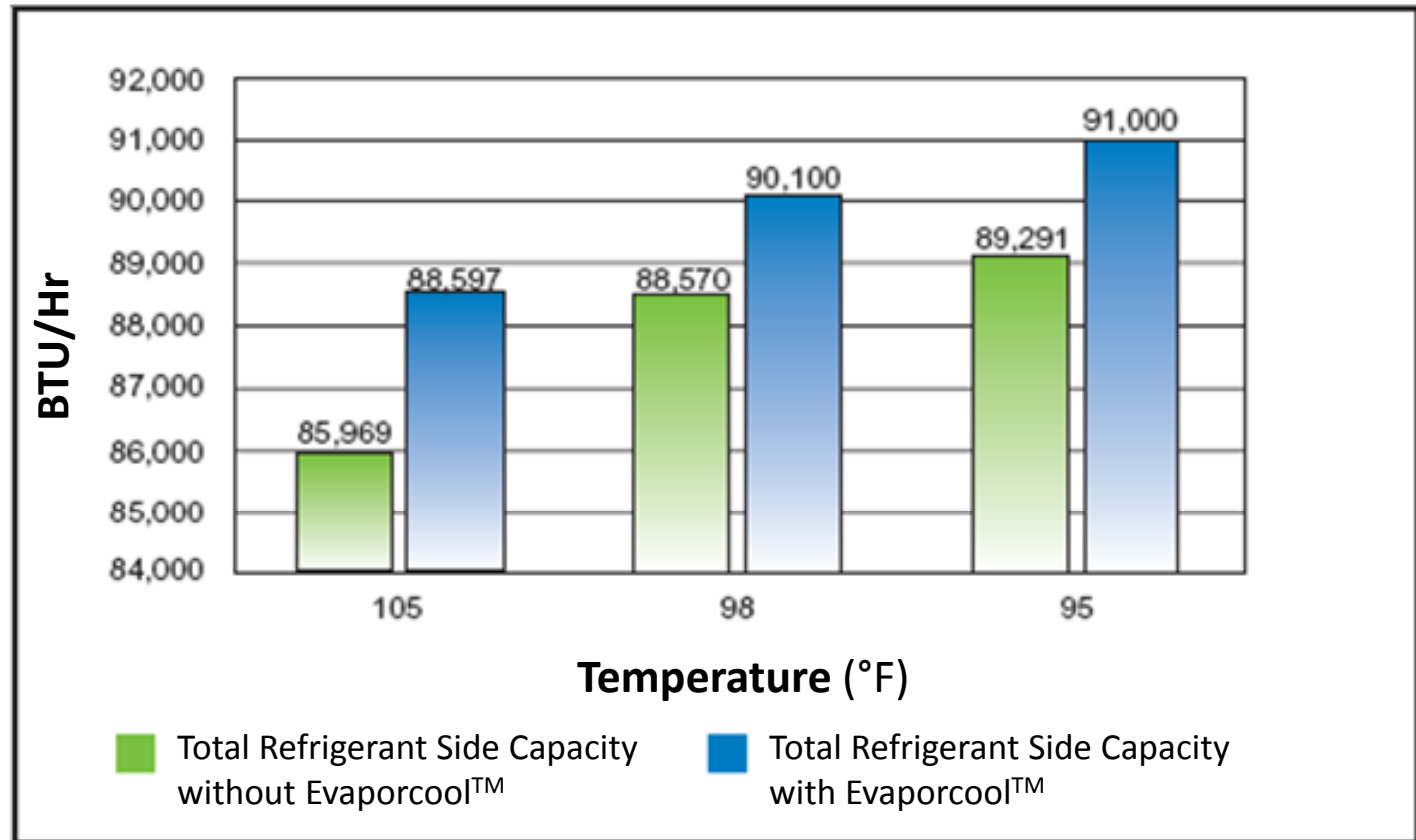
Increased Cooling Capacity

Temp. Increase

95° **1,709** BTU/Hr

98° **1,530** BTU/Hr

105° **2,628** BTU/Hr

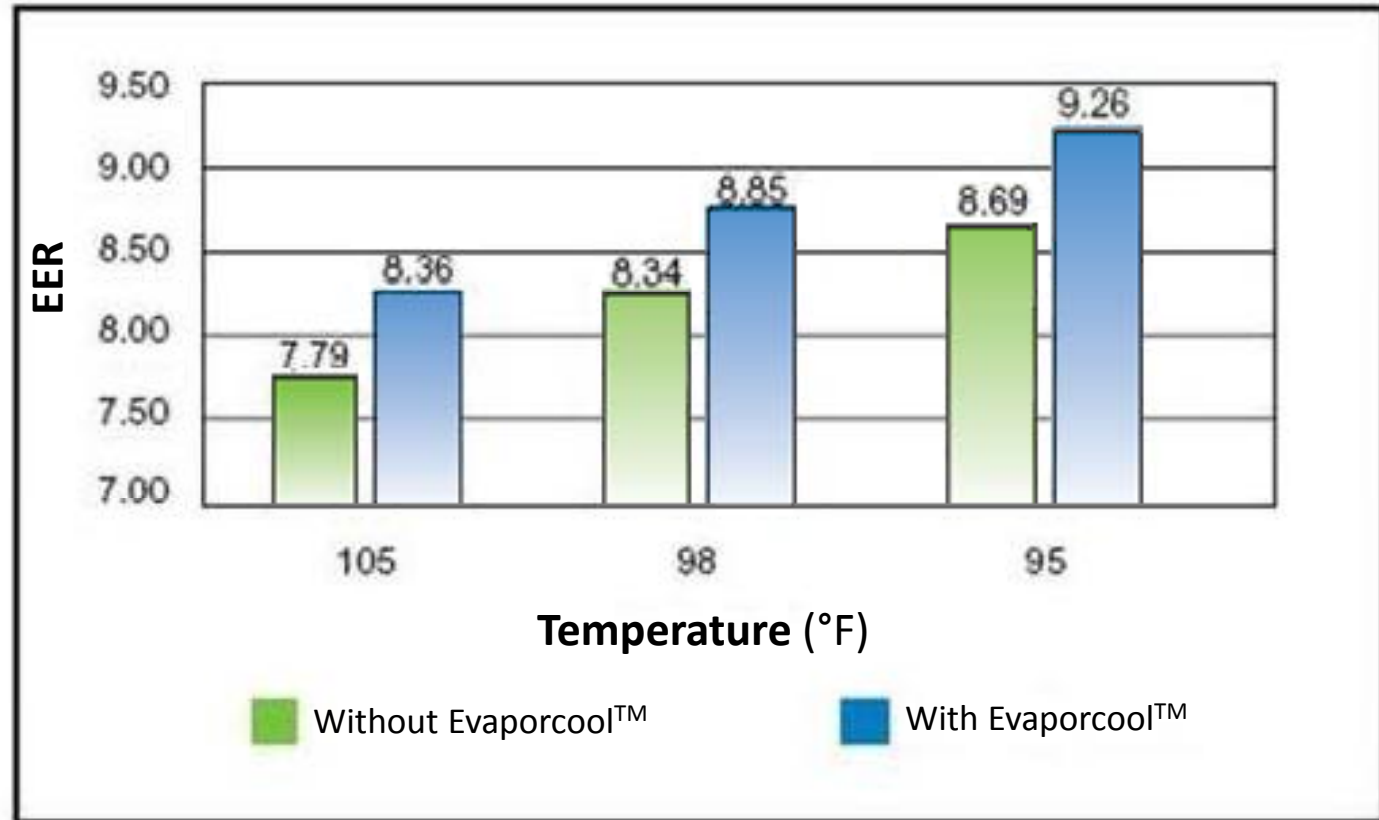




EVAPORCOOL™

Actual Results From UL Testing...

Increased Efficiency



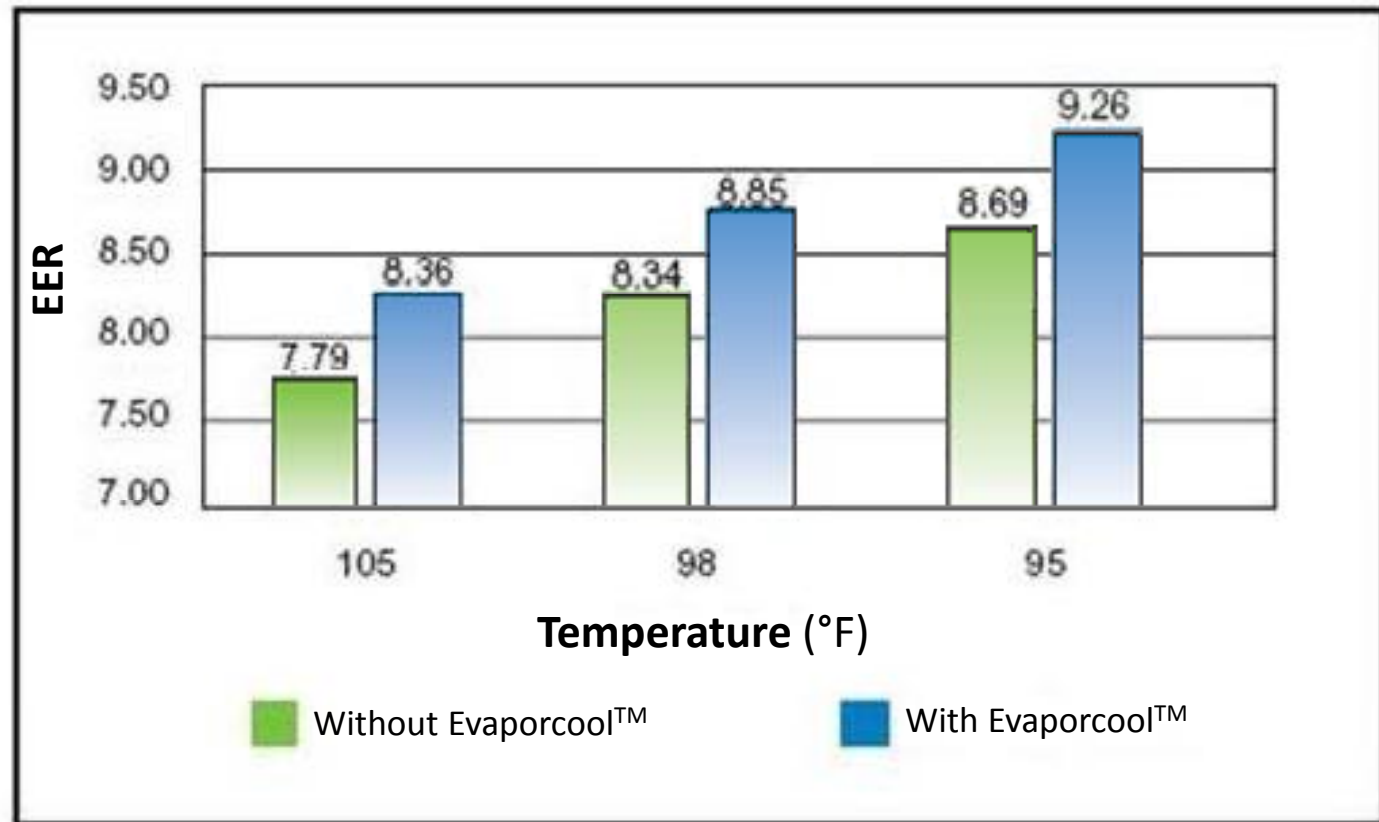


EVAPORCOOL™

Actual Results From UL Testing...

Increased Efficiency

Temp.	Increase
95°	.57 EER
98°	.49 EER
105°	.57 EER



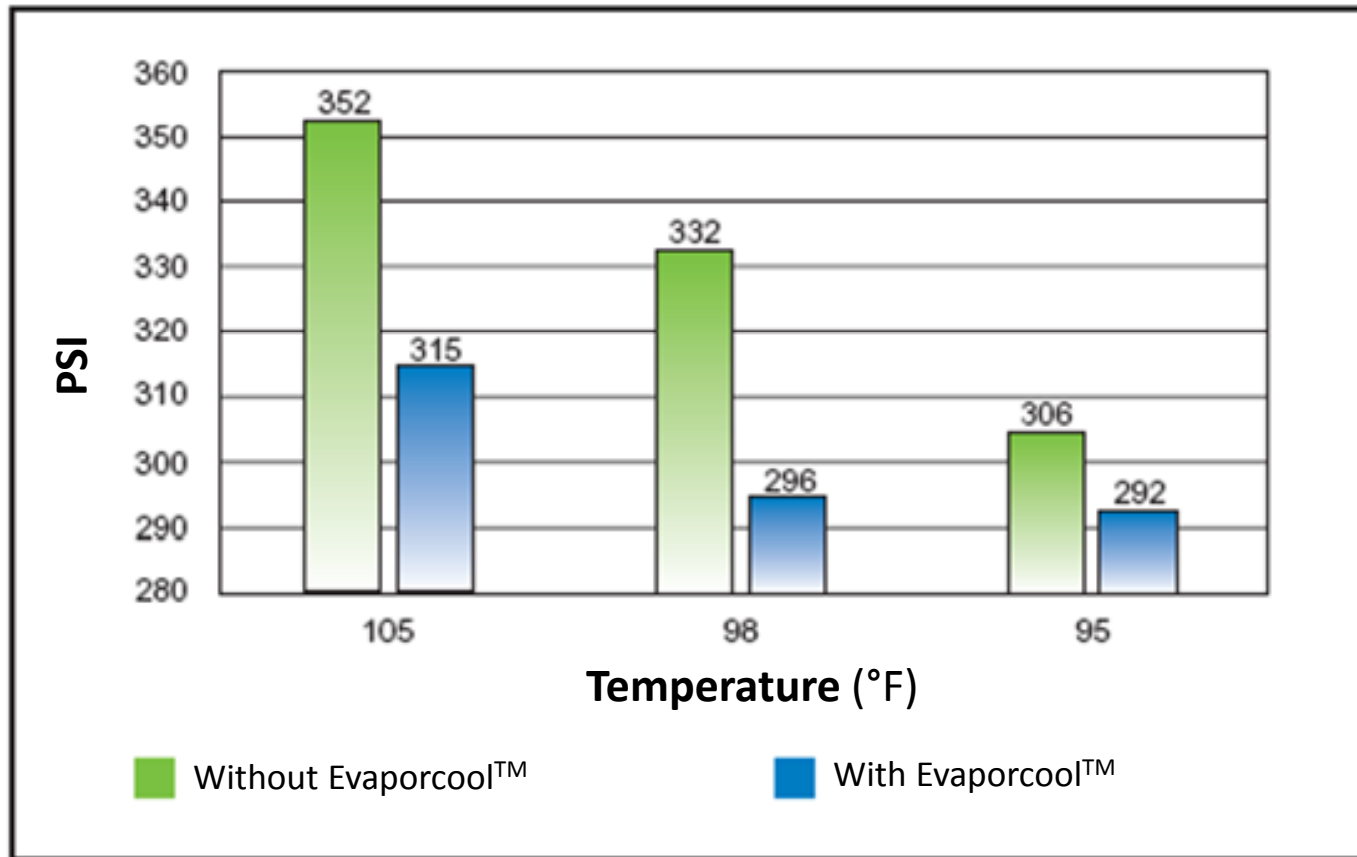


EVAPORCOOL™

Actual Results From UL Testing...

Reduced Head Pressure

(Compressor #1)





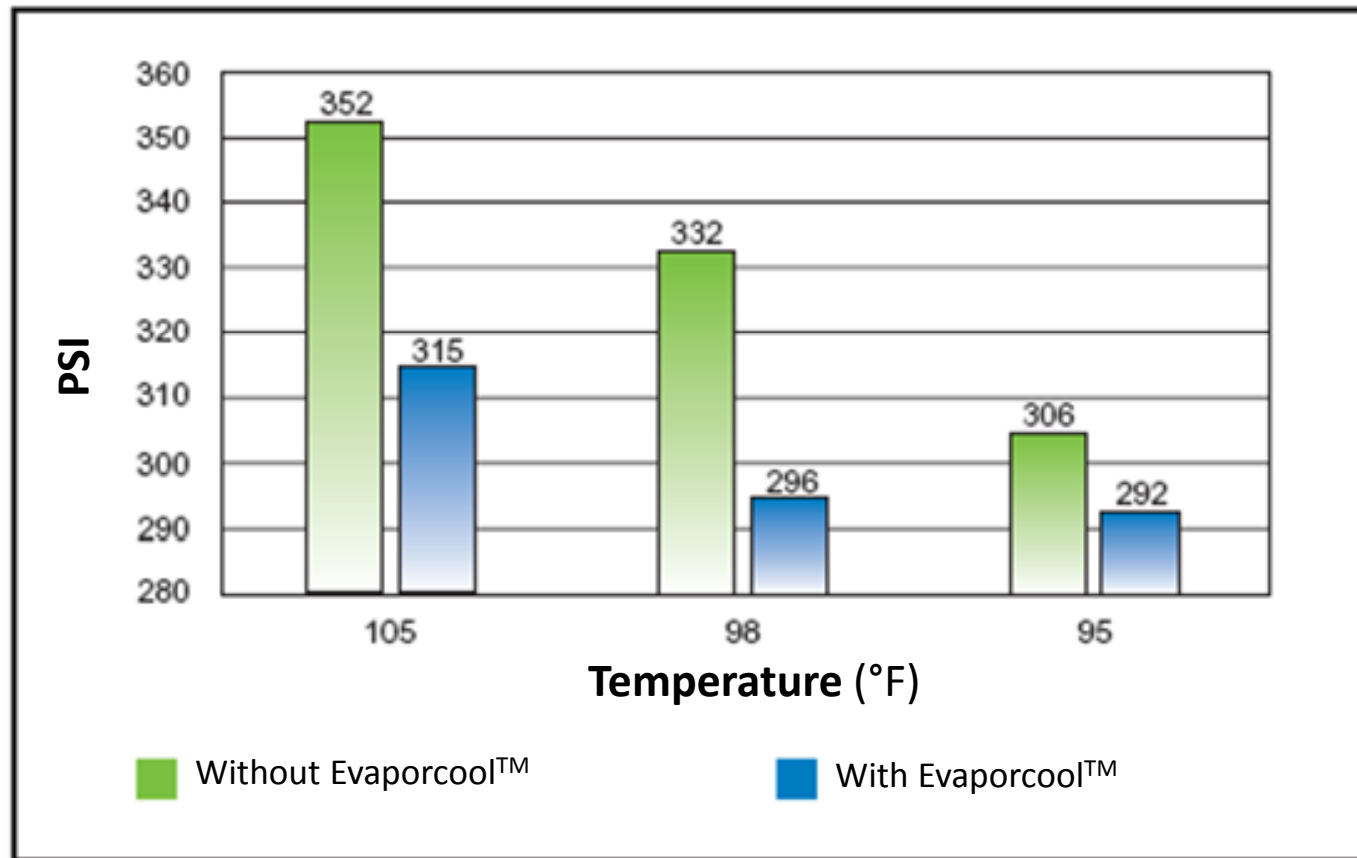
EVAPORCOOL™

Actual Results From UL Testing...

Reduced Head Pressure

(Compressor #1)

Temp.	Reduction
95°	14 PSI
98°	36 PSI
105°	37 PSI



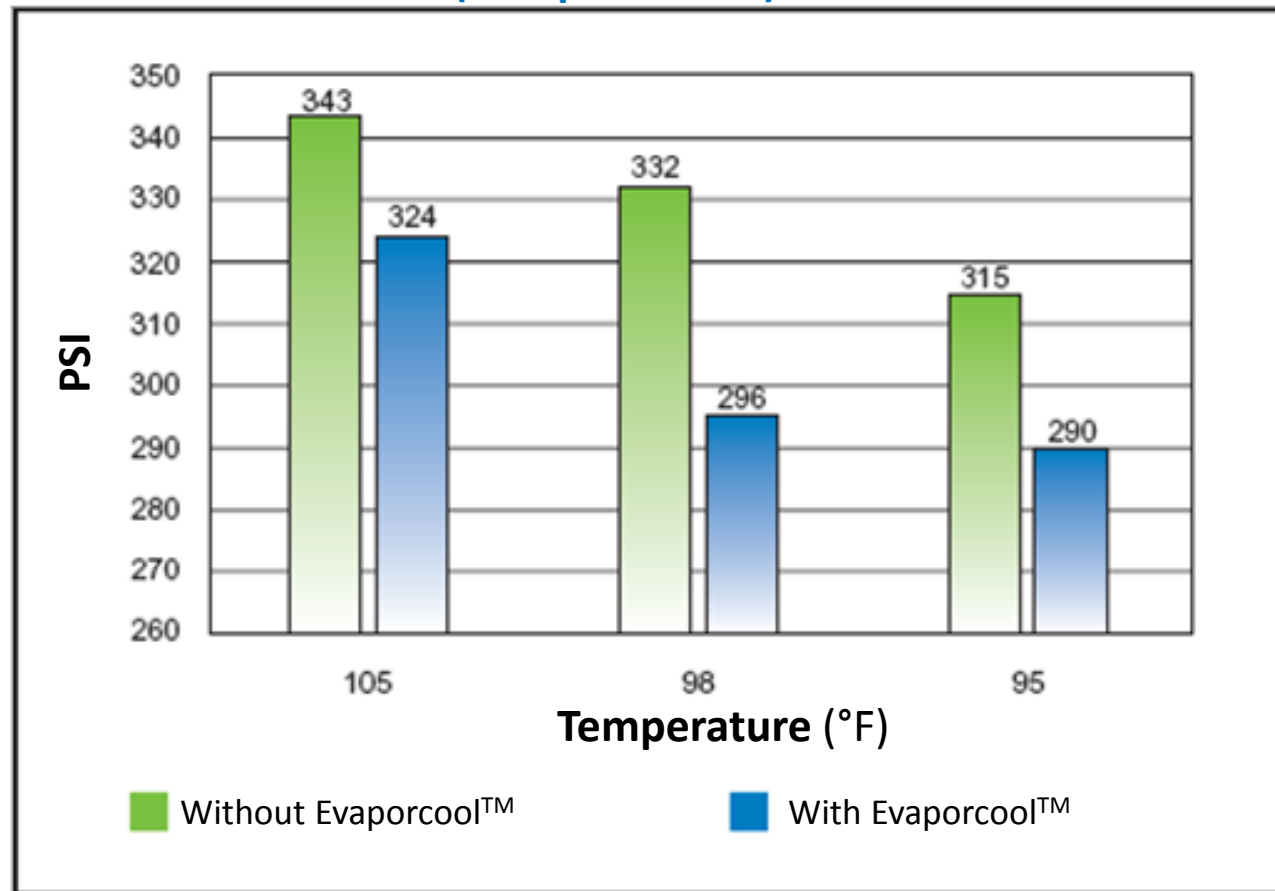


EVAPORCOOL™

Actual Results From UL Testing...

Reduced Head Pressure

(Compressor #2)





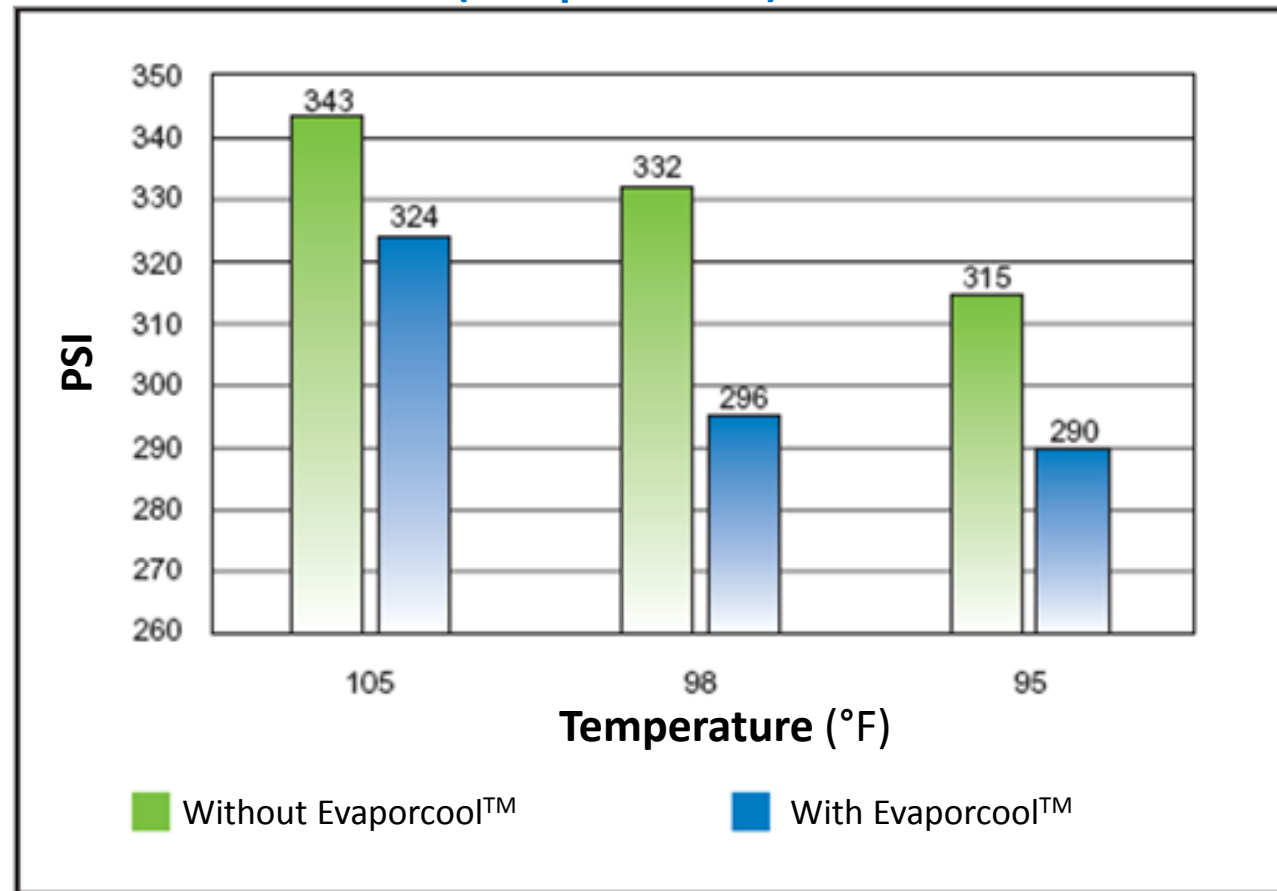
EVAPORCOOL™

Actual Results From UL Testing...

Reduced Head Pressure

(Compressor #2)

Temp.	Reduction
95°	25 PSI
98°	36 PSI
105°	19 PSI





EVAPORCOOL™

REDUCED MAINTENANCE

The Evaporcool System protects coils from dirt and debris, so your coils stay clean longer.

“A ... dirty condenser coil can increase compressor energy consumption by 30%.”

- Federal Emergency Management Program Fact Sheet

“If the coil is dirty [t]his raises your electricity cost for air conditioning and may shorten the life of the outdoor condensing unit.”

- Saturn Research Management





EVAPORCOOL™

REDUCED MAINTENANCE

Maintenance is fast & easy...

MAINTENANCE GUIDE

Page 1

When the system looks dirty:

Step 1: Wash the filter down with a standard hose.

Step 2: You're done.
Go back to work.

MAINTENANCE GUIDE

Page 2

At the end of the Cooling Season:

Step 1: Unplug quick-connect fittings.

Step 2: Clear system with compressed air.



EVAPORCOOL™

REDUCED MAINTENANCE

Our customers have noticed.

“[C]leaning [the Evaporcool System] takes 10 or 15 minutes compared to several hours to clean the condenser.” *

“Condenser coils have not been cleaned since installation of [the Evaporcool System] 2 years ago.” *



EVAPORCOOL™

WATER

Evaporative cooling is a science... and water is precious.

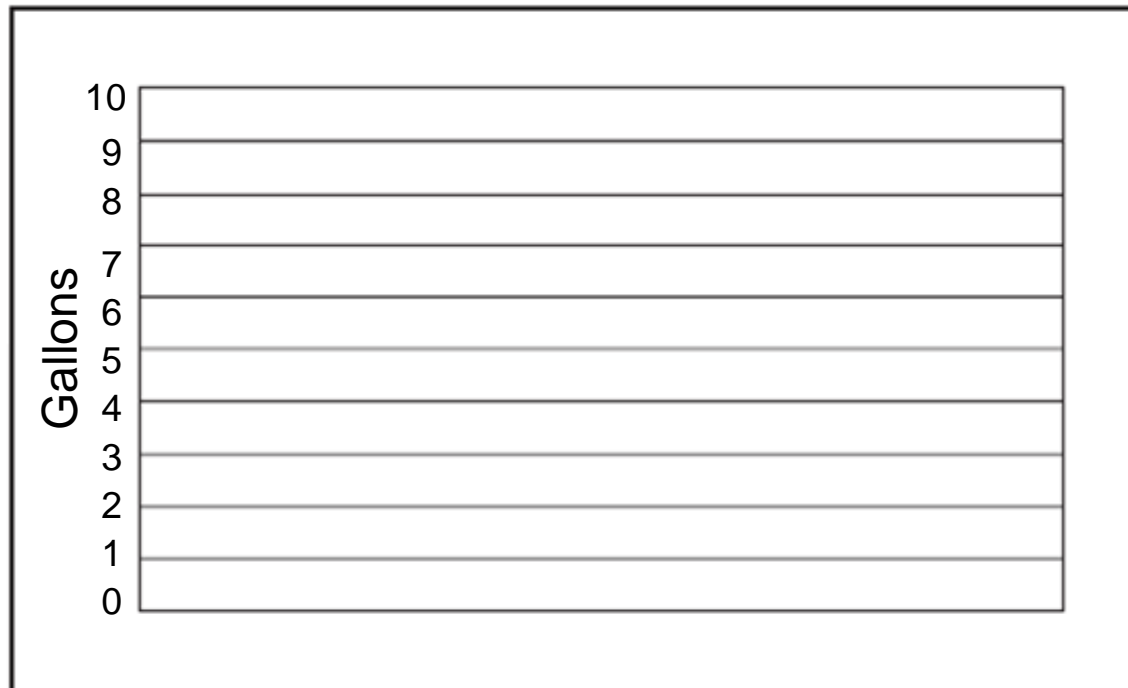




EVAPORCOOL™

Minimal Water Use

The Evaporcool System uses the precise amount of water needed to optimize cooling... and no more.

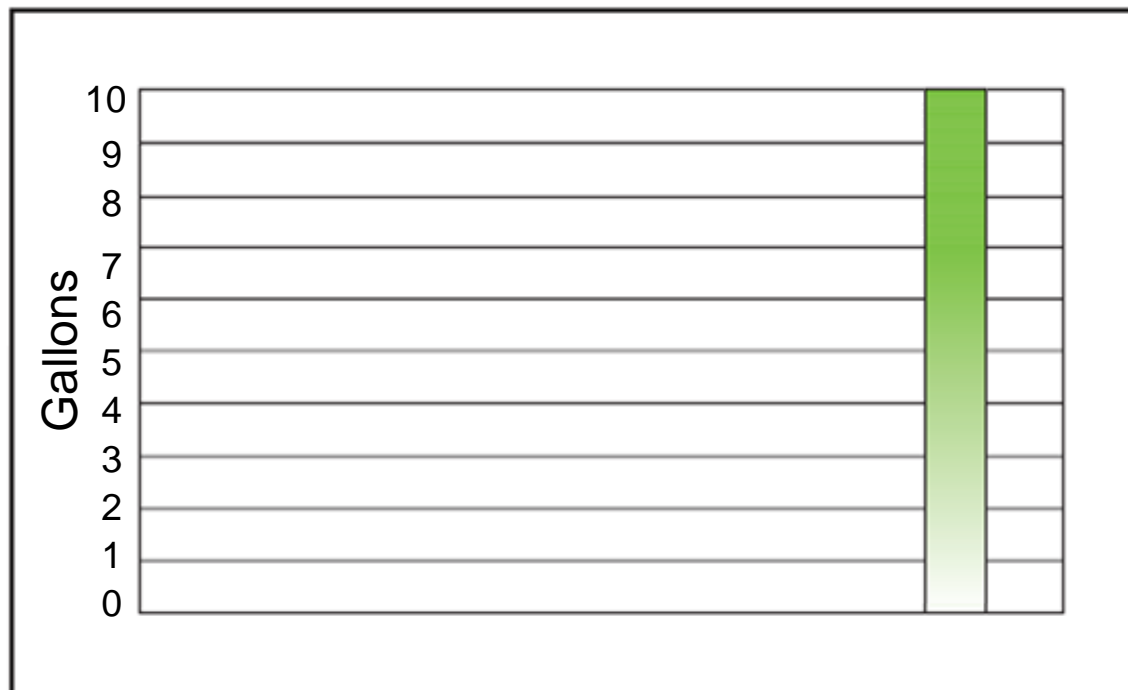




EVAPORCOOL™

A single 5 minute shower uses 10 gallons of water...

(Based on data from the U.S. Geological Survey)

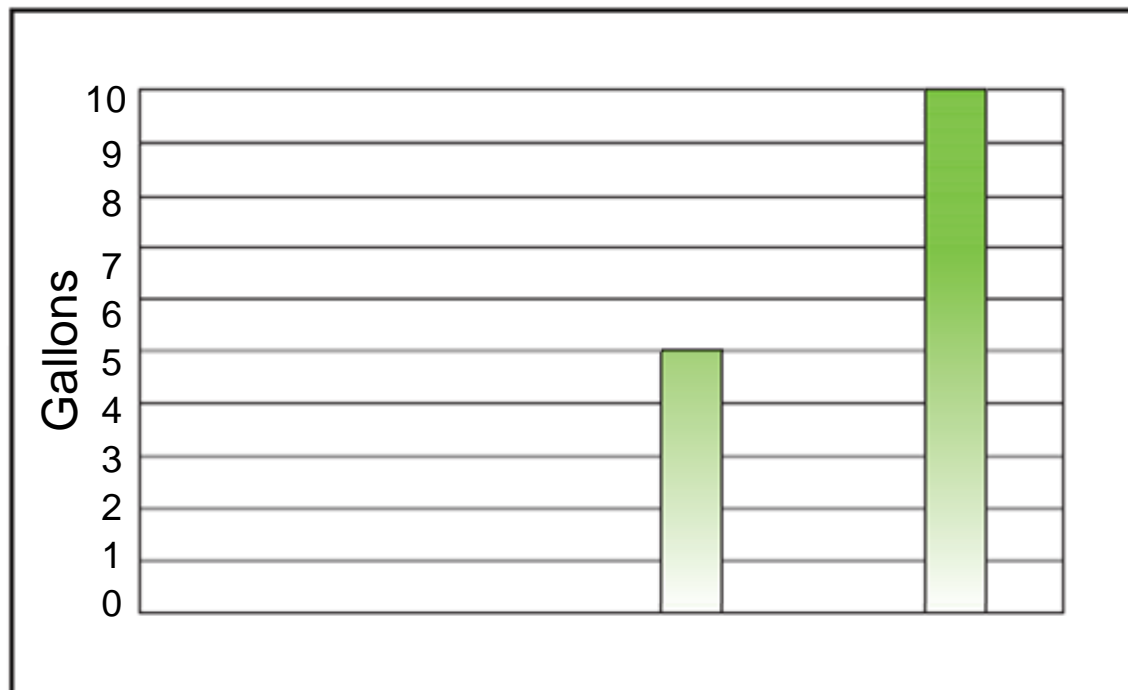




EVAPORCOOL™

A leaking faucet wastes 5 gallons of water in a day...

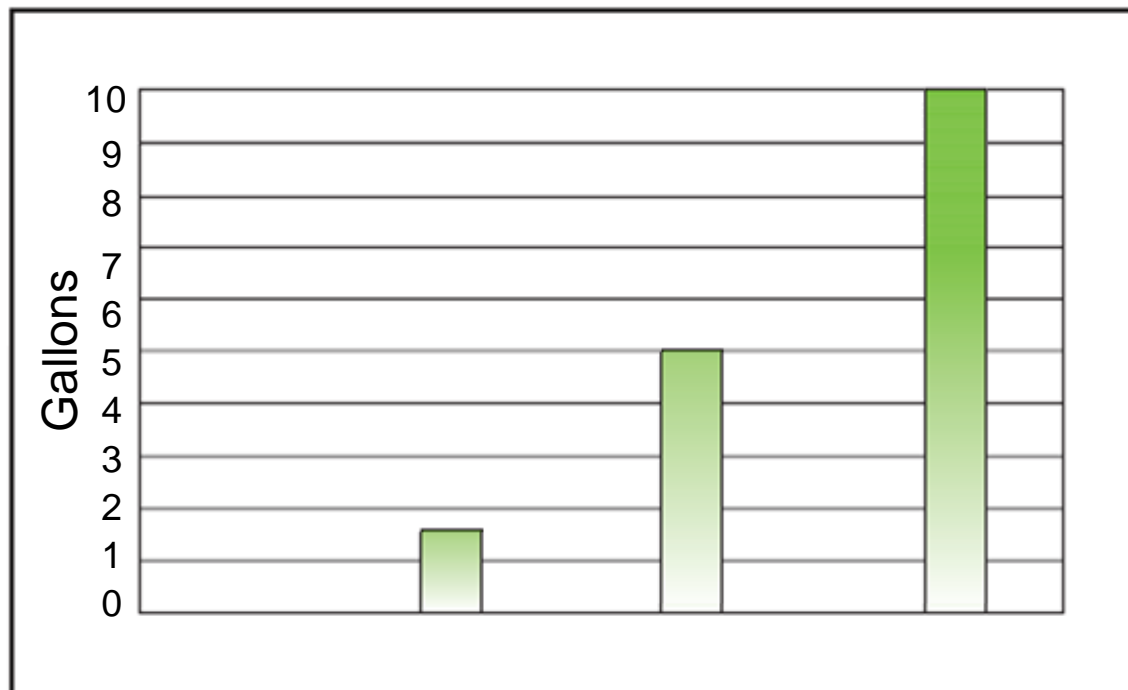
(Based on data from the U.S. Geological Survey)





EVAPORCOOL™

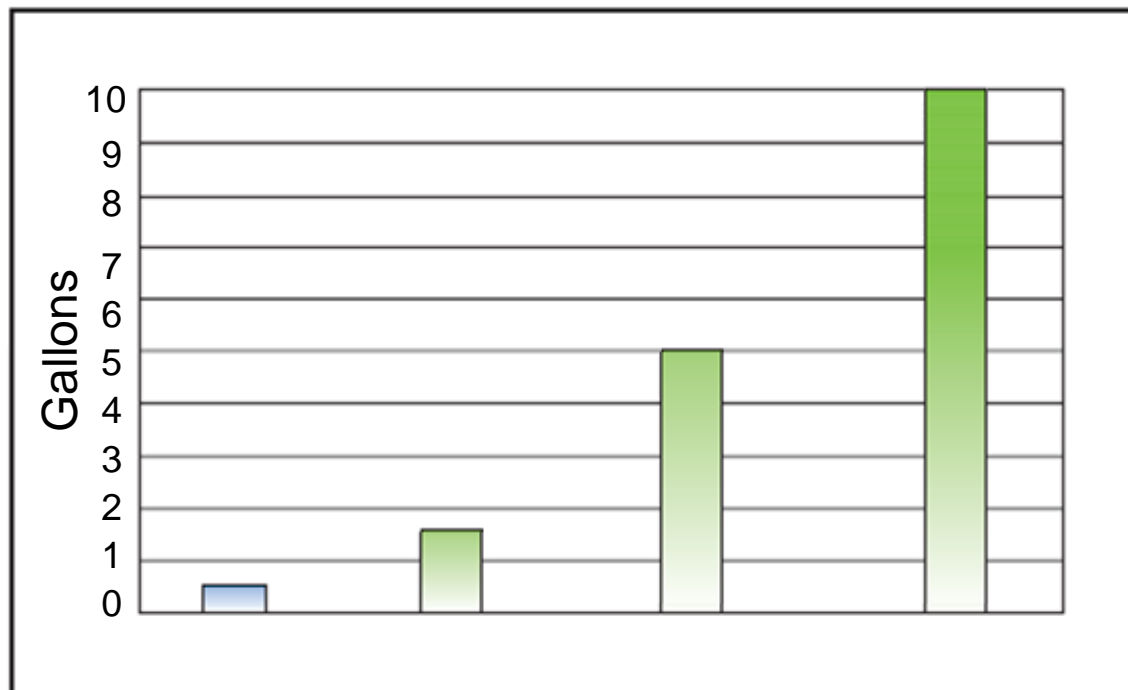
One flush of a modern low-flow toilet uses 1.6 gallons of water...





EVAPORCOOL™

A spray nozzle on the Evaporcool System running for an entire hour uses only 0.48 gallons of water...





EVAPORCOOL™

Water Treatment

Does the Evaporcool System work with hard water?





EVAPORCOOLTM

Water Treatment

Does the Evaporcool System work with hard water?



YES!



EVAPORCOOLTM

Water Treatment

We have developed a strong partnership with Siemens to handle water treatment when necessary.

SIEMENS

Siemens is the largest water and wastewater treatment systems and services company in North America, serving more than ninety percent of the Fortune 500 manufacturing companies.



EVAPORCOOL™

Water Treatment

Using Siemens' advanced water technologies, the Evaporcool System operates flawlessly in virtually any hard water environment.

A water sample is taken from each hard water location and analyzed. The appropriate water treatment equipment is then custom installed along with the Evaporcool System.



