

Chiller TechNet Document #1023



AuraCool Chiller Economizer Technology - Introduction



Presented by:
Martin P. King
Legacy Chiller Systems

What is an Economizer?

The term Economizer, as used in the Heating, Ventilation, Air-Conditioning (HVAC) industry, outlines the process of using a readily available cooling medium to exchange heat at a low cost. The ultimate goal of an Economizer is to reduce the need to deploy refrigeration compressors that can consume a lot of energy. In response to ever increasing power grid demand, many municipalities are starting mandated higher energy efficiencies for businesses and this trend is expected to continue. Economizers have historically been a cost effective way to help meet these mandates while providing a good return on investment.

Legacy Chiller System's AuraCool process chiller Economizer Technology has transformed common fluid coolers to a new level by integrating the latest Bacnet digital control technology into a compact, low profile unitary system. Since Legacy's introduction of Patented Integrated Economizer technology in 2007, customers have enjoyed KWH reductions of up to 60% while dramatically reducing their carbon footprint. With the introduction of AuraCool process chiller Economizer Technology, Legacy has made it possible to achieve significant energy savings on existing chiller systems with VERY reasonable Return on Investment (ROI).

Why retrofit chillers with AuraCool Chiller Economizer Technology?



For process cooling, chillers have been used for a variety of applications such as MRI, Lasers, Semiconductors, Advanced Military systems, Data Centers and Surgical Rooms.

Until the release of Legacy's AuraCool Economizer Technology, building owners interested in the benefits of going GREEN, would need to invest in major mechanical system overhauls. In the past, major chiller efficiency renovations on existing buildings have been be risky, commonly going over budget and taking longer than expected.

With AuraCool, building owners now have an option to improve the efficiency of an existing chiller system with a much lower capitol cost and risk. At the same time, AuraCool can move Return on Investment (ROI) from decades to just a few years.

**Legacy
Chiller
TechNet**



Copyright © 2011 Legacy Chiller Systems

Answers When You Need Them

Chiller TechNet Document #1023

U.S. Market Energy Savings Opportunities

Using Legacy's Energy Audit Tool customers can now project savings. Below, are projected Auarcool savings in some key U.S. markets. For a free copy of the Energy Audit tool to calculate potential savings using site specific data contact Legacy Chiller Systems Engineering at: 877-988-5464 x 101.



Legacy
Chiller
TechNet



Copyright © 2011 Legacy Chiller Systems

Answers When You Need Them

Chiller TechNet Document #1023



Additional Chiller TechNet Resources for this subject

[Link:> Video Using Chiller Energy Audit Tool](#)

[Link:> Download AuraCool Economizer Submittals](#)

[Link:> Sign-up for AuraCool webinar](#)



Martin P. King
Legacy Chiller System
Senior Fluid System Designer
877-988-5464
Sacramento, CA
mking@legacychillers.com

Looking for Chiller Training?: Legacy Chiller Systems provides custom chiller training programs that can be presented remote by way of Webinars or at your place of business. Call 877-988-5464 for programs available and pricing. To access FREE chiller system design tools go to: **Legacychillers.com**

**Legacy
Chiller
TechNet**



Copyright © 2011 Legacy Chiller Systems

Answers When You Need Them