

Unico News

Unico, Inc.

Inside This Issue:

Featured Case Study	1
Continuous Heat Test for E.C. Motor	2
Unico Cooling only UniChiller	2
Unico Website Launch	3
Two New Pieces of Unico Sales Literature	3
Pete's Webinars	3
Upcoming Events	4

Don't forget to check out our other case studies at www.unicosystem.com/casestudies

If you have an installation that you would like turned into a case study, please contact Brian Intagliata at 800-527-0896!

Featured Case Study—St. Louis, MO.



Above: Unichillers on the rooftop

Overview

Tuberculosis was once the leading cause of death in America. Luckily, through advances in modern medicine, most cases can easily be treated through standard antibiotics. Unfortunately though, this isn't always the case and patients require more specialized care to get them healthy. For cases such as this, patients turn to medical facilities that treat chest disorders like Tuberculosis. Currently, a facility such as this is being built in West St. Louis City.

Facilities like these treat patients, while at the same time keep the airborne particulates at bay for those who are uninfected. In order to keep the bacteria at safe levels though, the rooms must be relieved of all the potentially contaminated air. This poses a problem because the facility needs to remain comfortable at the same

time. This was the challenge faced by lead design engineer, Patrick O'Brien.

Strategy

Patrick owns Dynamic Engineered Systems in St. Louis and has successfully designed many interesting HVAC projects—some of which, including this one, involve The Unico System.

Patrick knew that he had a bit of an obstacle because of the fact that the exhaust fans were taking out all of the air, which meant they had to replace that same volume with conditioned air. Not only that, but the system had to be able to handle 100% outside air. Part of the problem with this is in the St. Louis climate, especially in the summer, the air is incredibly humid. But with The Unico System's superior ability to eliminate humidity, Patrick knew that The Unico System would have no problems getting the job done.

To do all of the tasks needed for this job, Patrick designed the system using two 3-ton Unico UniChillers which supply a Unico System blower and two Unico System coils. The coils are used in a series in order to handle the

large volume of outside air. They are also used to overcool the air to 55 degrees to help pull out the humidity. The air is then reheated to keep the temperature for the indoor space at comfortable levels for the patients. Johnson Controls installed the entire system using Patrick's designs.

Results

Because of The Unico System, Patrick was able to achieve all of the goals he set out to do which wouldn't have been possible otherwise. "Unico offers significant flexibility when meeting non-standard requirements. I have used this product in applications that standard, off the shelf equipment could never be applied and it has performed beyond expectations. Unico is my first choice for comfort and dehumidification control."



Above: The Unico System and exhaust

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Continuous Heat Test for E.C. motor



As you can see in this photo, we are conducting high temperature testing of our variable speed EC motors. As of June 30th we have one motor (the air handler in the center) which has been running non-stop for over 4300 hours with internal air temperature across the motor of 150° F. We plan on running these air handlers until the motors quit working in order to see just how long they will last under these high temperature conditions. Emerson is also conducting their own testing on our E.C. motors as well. Later this year, the Unico Engineering department will publish a report that will provide greater details about the test results.

Unico Cooling only UniChiller

Starting August 1, 2011 Unico will add a 3 and 5 ton air-to-water cooling only chiller to our existing UniChiller line of products. The following table lists the new cooling only part numbers along with their description.



PART NO.	DESCRIPTION
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With High Head Pump (without flow meter)

UCH0364-1C2	3-Ton Air-to Water Chiller, 1P-208/230V-60Hz, R-407C, high head pump
UCH0604-1C2	5-Ton Air-to-Water Chiller, 1P-208/230V-60Hz, R-407C, high head pump

Without Pump (includes flow meter)

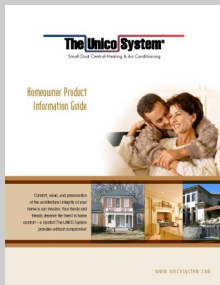
UCH0364-1C0	3-Ton Air-to-Water Chiller, 1P-208/230V-60Hz, R-407C, no pump
UCH0604-1C0	5-Ton Air-to-Water Chiller, 1P-208/230V-60Hz, R-407C, no pump

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Unico Website Launch... Coming Soon

We are getting close to launching our new website, which we feel will help visitors find the information they need much easier than before. To the right is a snapshot of what the homepage will look like:



Two New Pieces of Sales literature

Along with the website we also have two new pieces of sales literature available. The first piece is our re-designed "Homeowner Product Information Guide". The other is our new Unico System and Affordable LEED Platinum Homes electronic brochure. This new electronic brochure describes how Unico was used in 48 LEED Platinum certified homes at the Make It Right project in New Orleans. If you'd like to receive either of these, please contact our literature department at 800-527-0896 or at literature@unicosystem.com

Pete's Webinars

Some of you are aware about Pete's webinars covering various topics such as the EC motor and How To Sell Unico. These are being made available on our Youtube channel. The first one, Indoor Air Quality, is available by clicking the link below. The second, EC motor, will be available soon so stay tuned to our channel!

http://www.youtube.com/watch?v=R5XW_es7zUo

Also, anyone is welcome to attend as Pete does them, and the schedule is below. If you would like more information please contact your local representative, or Pete Williams directly at 314-422-3265.

July 13—1:30 CST—How to Sell Unico
July 22—1:30 CST—Unico for Heating


July 15—1:30 CST—Providing for Outside Air
July 29—1:30 CST—Upgrading and replacing old Unico & Other SDHV systems


UNICO, Inc.

Unico, Inc.

7401 Alabama
St. Louis, MO. 63111
Phone: 800-527-0896
Fax: 314-457-9000
E-mail: sales@unicosystem.com

www.unicosystem.com

Facebook 

YouTube 

Unico manufactures the world's leading small-duct central heating and cooling solution, called the Unico System. Unico is installed in historic preservation and renovation applications, high-end custom homes and any application where the homeowner, architect, builder or designer mandates superior indoor comfort. Unico is the pre-eminent Small-Duct, High-Velocity HVAC product on the market today. Find out why installers and end users have made this heating, ventilation, and air conditioning system the product of choice for better comfort and aesthetics in hundreds of thousands of applications in the US and over a dozen countries worldwide.

Upcoming Events

Granite Group Trade Shows

- Thursday, August 25—Vermont
- Thursday, September 22—New Hampshire and Massachusetts
- Thursday, October 6—Connecticut