



## HVAC CONTRACTORS

## ENGINEERS AND ARCHITECTS



## UNICO SDHV LUNCH & LEARN

To All participants in the trade, Unico & HVAC PROVIDERS cordially invites you to a brief Lunch & Learn 1 on Training on SDHV High Velocity Systems. We can meet at your office or any location at your convenience.

**The SDHV Unico Design utilizes only 2" Outlets, produces 35 cfm's per outlet. It's a High Velocity - High Pressure System and utilizes 6 - 7 outlets per ton estimated at 250cfm per ton.**

## **How many BTUs are there per outlet?**

Each outlet is capable of delivering up to 35 CFM (19 L/s) with a capacity of 2000 Btu/hr (0.6 kW) cooling and 4000 Btu/hr (1.2 kW) heating with hot water. We recommend that a minimum of 6 outlets per nominal ton be installed. However, this will vary depending on the design of your system and your load requirements.

## **The Unico System best suited.**

**The Unico System can be used to cool or heat any home or buildings that have no ductwork, inadequate ductwork, or where little space for ducting. The Unico System adapts perfectly to any type job like: retrofitting, new construction homes, condominiums, or luxurious apartments. It also adapts in many commercial and industrial applications.** From older or custom homes, to offices or hotels, the Unico System is the answer for many different projects. We have even been installed in a dugout of a professional baseball team. The options are nearly endless!

The Unico System operates like any other central air system, but with **greater benefits and maintaining the** aesthetics of your home are maintained with the Unico System – There are many features and benefits to the Unico System, but here are a few.

- NEW 2.5 Ducts reduces 20% materials.
- Add-on heat pump and Electric Heat available.

## Fits Any Space



## Quiet Performance

The air from our system is delivered quietly and seamlessly. The **supply tubing** is designed to be as efficient as possible and also to minimize sound which brings decibels levels to the equivalent of a soft whisper. This is due to the nylon inner core and also the insulation, which absorb the sound created from the air.

The **air handler** is also designed to isolate noise and vibration. Each module, including the blower and coil, of our system is insulated with closed cell, sound deadening insulation which ensures that the unit remains quiet. While you'll feel the comfort our system provides, you'll never notice it's running

## Little or No Remodeling

The Unico System fits where other conventional cooling and heating systems can't - with little or no remodeling required! The modular air handlers and coils can be easily installed into attics, ceilings, crawlspaces, and closets.

The flexible small ducts can be routed through existing ceiling, floor or wall cavities – eliminating the need for unsightly and noisy metal ductwork!

Because of all our design features, there is no need to “gut” the home for installation. The process is less disruptive, there's less mess, less dust, and less installation time. Without the installation requirements of a traditional heating and cooling system, the Unico System saves time and money on your construction.

All across the country home owners are enjoying the high performance and superior comfort of the **Unico System**. Installed in more than 500,000 homes, the Unico System® fits into homes where conventional heating and cooling units can't, providing your project with comfort, esthetics for years to come

No matter when the house or building was built or what the physical configuration, installing the Unico System is always a possibility—without compromising the design or architectural integrity

## Draft Free, Even Temperatures



This illustration shows the Unico System with a slightly higher room temperature but even temperatures. Even temperature comparison

Traditional systems "dump" the air into the room which causes drafts and uneven temperatures throughout different parts of the room (as seen above). Through an air principle called aspiration, the Unico System air enters a room (pictured above) and creates a gentle suction around itself that draws the room air into its stream of air. Aspiration creates an even, draft free environment. This has the net effect of lowering the effective room temperature by 2 to 3 degrees. From room to room, floor to floor, and floor to ceiling, the temperature differential is no greater than 2 degrees from where you set the thermostat. This illustration shows the Unico System with a slightly higher room temperature but even temperatures.

## Removes 30% More Humidity

The Unico System provides greater humidity removal, up to 30%, with the superior and efficient design of our cooling coils, creating a perfectly comfortable environment. What this means for you is that you can have your thermostat set higher than you typically would, yet have the conditioned space feel as though your thermostat is set lower,

saving you energy and money. The illustration to the right shows the amount of moisture left in the space by traditional units compared to the Unico System.

## Matches Any Decor



Outlet painted to perfectly match decor.

The Unico System offers you a huge selection in outlet choices. Our outlets come round or slotted, and are designed to fit any décor or home architecture without compromise. They can also be painted or stained to exactly match the interior design. The Unico System outlets can be installed in ceilings, floors, or sidewalls. In fact, with their less invasive size and complementary colors and woods, you will hardly notice they are in the room. What you will notice is the perfect indoor comfort they provide.

## Efficiency

The Unico System ductwork has 1/3 the surface area of conventional ducting so before it is even installed the Unico System ductwork has 1/3 less thermal loss. The supply tubing is also wrapped with insulation and an outer vapor barrier, which keeps nearly all of the thermal energy within the duct.

In the case of duct leakage, the Unico SDHV system is engineered for simplicity and air tightness.

## Showcase Projects

The Unico System has been installed in some pretty impressive places. Here are a few of the more notable installations.

- President Lincoln's Cottage
- Fort Dix
- Petersen House
- Naval Academy
- Truman White House
- Little Rock Air Force Base
- Warren AFB
- Samuel Clemens (Mark Twain) House
- Yale University
- The Beach House on Truesdale Lake

LINKS:

Press your **control key +click** on the links to view the sites.

[www.unicosystem.com](http://www.unicosystem.com)

[www.hvacproviders.net](http://www.hvacproviders.net)

<http://www.preservationnation.org/>

<http://www.aia.org/>

<http://www.ahridirectory.org/>

<http://www.oldhousejournal.com/>

<http://www.oldhouseonline.com/unico/>

<http://www.thisoldhouse.com/>

[http://www1.eere.energy.gov/buildings/appliance\\_standards/product.aspx/productid/75](http://www1.eere.energy.gov/buildings/appliance_standards/product.aspx/productid/75)



**National Trust for  
Historic Preservation**

*Save the past. Enrich the future.™*

The National Trust for Historic Preservation has partnered with Unico, Inc. due to our systems ability to help preserve the original architectural integrity of historically significant projects <http://www.preservationnation.org/support-us/marketing--sponsorships/partners/unico/>

In our Lunch & Learn, Engineers will learn high velocity system calculations. Unico System, designing your system will be a step away by registering for your reserved date

**Please Contact Ernie Gomez**

**305 879 2994 for further information on Unico Systems.** The

Unico System is the system of choice for many different applications. There is virtually no limit to the places that the Unico System can be installed.