

# The Unico System<sup>®</sup>

Small Duct Central Heating & Air Conditioning

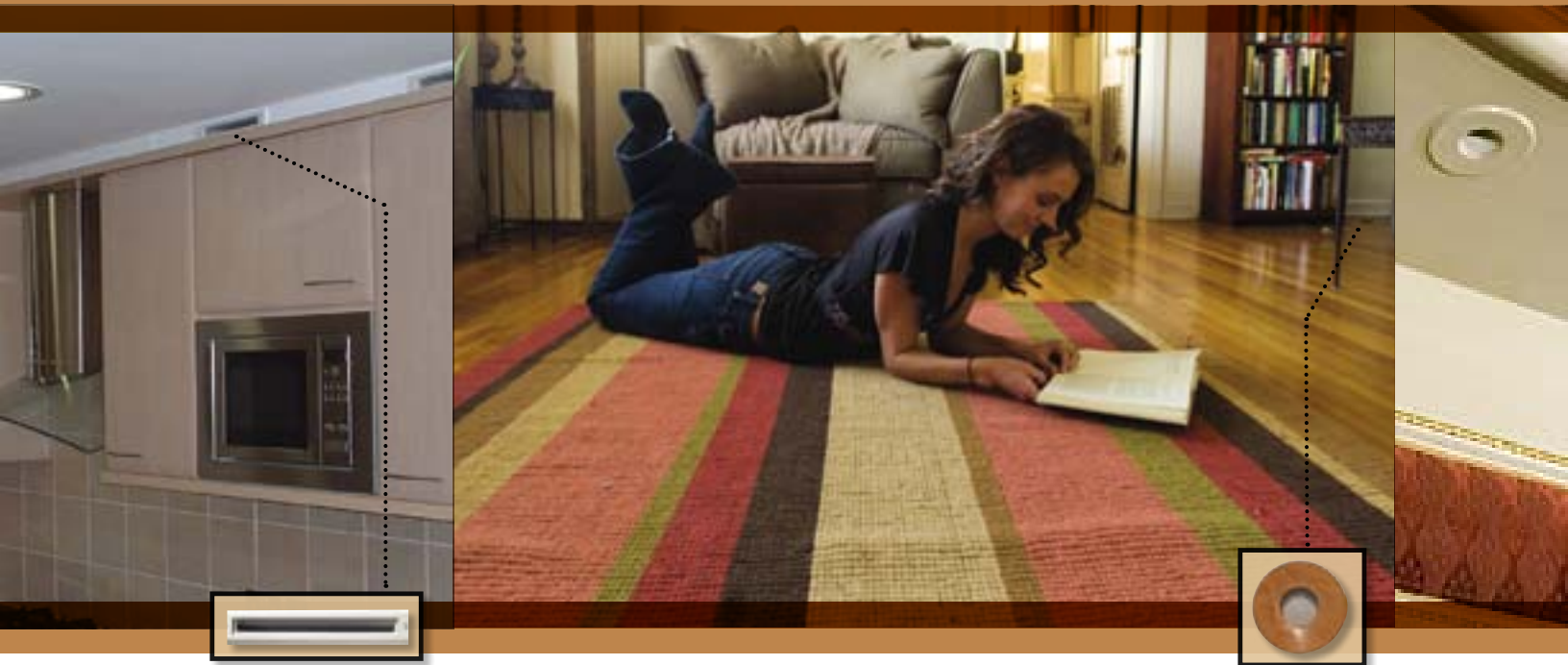
## Homeowner Product Information Guide



Comfort, value, and preservation of the architectural integrity of your home is our mission. Your family and friends deserve the finest in home comfort – a comfort The UNICO System provides without compromise!



## **Get Comfortable** with an Innovative HVAC Solution from UNICO



### **What We Do For Homeowners**

*Whatever your home's style, The UNICO System is the perfect fit. A superior central heating and cooling system with its innovative "aspiration" technology, warms and cools your house evenly and quietly. Our revolutionary flexible small ducts weave through the smallest spaces—ceilings, walls, even floors—so there is no need for costly, messy renovation.*

#### **Custom & New Construction**

Flexibility and efficient installation make it a perfect fit for new construction applications as well as custom-built homes.

#### **Historic**

No matter when your home was built or what the physical configurations are, you can install The UNICO System for high performance heating and cooling comfort.

#### **Log Homes**

Because so much emphasis on log homes is placed on the aesthetics inherent in the use of the exposed wood, designers, builders, and homeowners are pleased with the system's flexibility and unobtrusiveness.

#### **Retrofit & Remodeling**

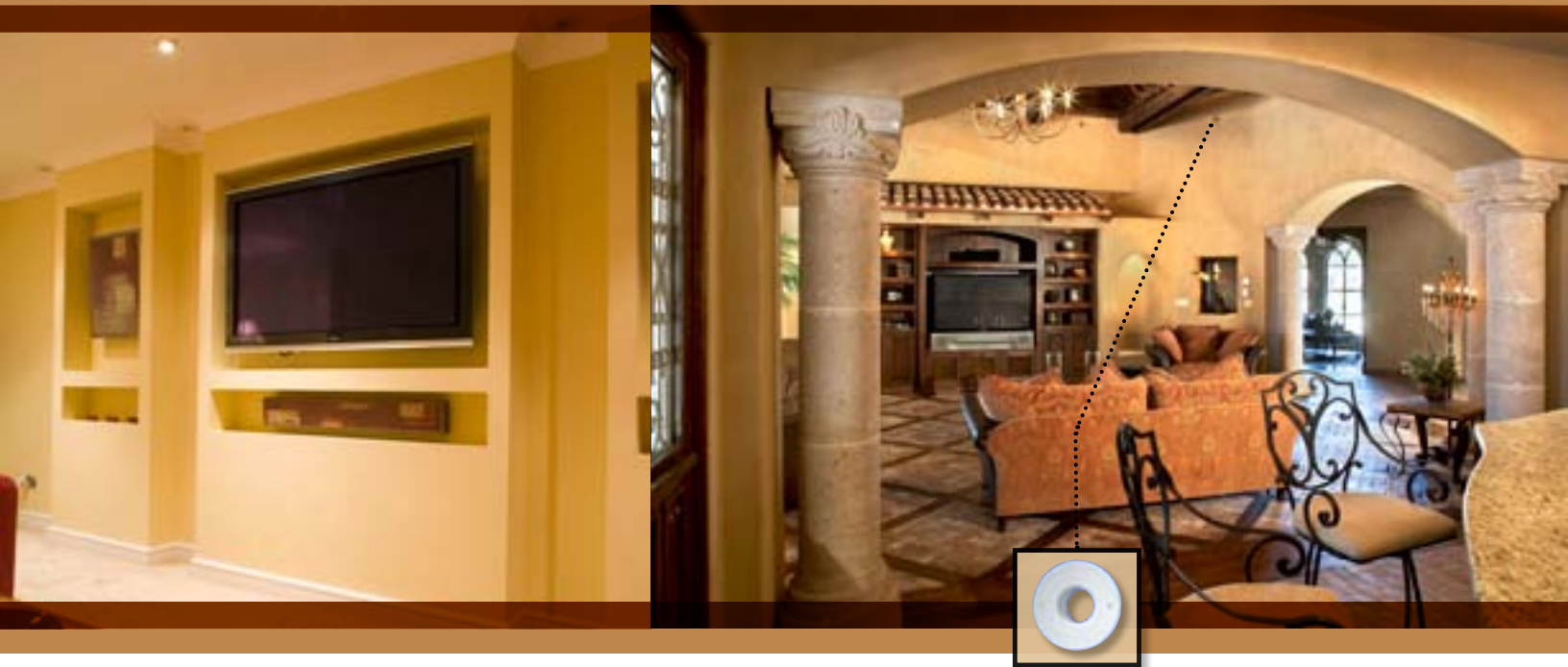
Crafted to weave through and around existing construction makes it the perfect solution for retrofit applications.

#### **LEED® Certified Homes**

Well insulated, energy efficient homes need to have proper air circulation within them to provide the necessary indoor air quality that the occupants need. The UNICO System, through its use of aspiration, provides the superior indoor air quality that residents of LEED Certified homes require.

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## Why Use UNICO

*Your home is your castle – or maybe it's your bungalow, brownstone, or Victorian. Perhaps it's a design the world has never seen before. Once installed, you'll hardly notice The UNICO System. All you'll know is that your home is perfectly comfortable – warm in winter, cool in summer, quiet all year round. You'll feel more at home, and because The UNICO System doesn't compromise the architecture of your house, even your home will feel more like royalty.*

### Quiet Performance

The UNICO System outperforms conventional heating and cooling systems by utilizing a patented high velocity stream of air. This air is delivered quietly and seamlessly into the room using our 2" or 2.5" outlets or the 8" x 3/4" slotted diffuser.

### Draft-Free, Even Temperatures

We deliver superior comfort over traditional HVAC systems by eliminating drafts and removing 30% more relative humidity. Humidity removal is achieved with the superior and efficient design of our cooling coils, creating a perfectly comfortable environment.

### Fits in Any Space

No matter when your home or building was built, or what its physical configuration, installing The UNICO System is always a possibility - without compromising design or architectural integrity.

### Little or No Remodeling

Our system fits where conventional cooling and heating systems can't - with little or no remodeling required! Our modular air handlers can be easily installed into attics, ceilings, crawl spaces, and closets.

### Matches Any Decor

A huge selection in outlet choices is available. Our outlets come round or slotted, and are designed to fit any decor or home architecture without compromise.



5" outer diameter plastic outlet for ceiling applications (available in white, black, brass, chrome or custom paint finishes)



5" outer diameter wood outlet for hardwood floor applications (available in a variety of wood species)



15° and 25° angled outlets for sloped ceilings and walls



Slotted outlet for sidewall applications (available in a variety of finishes and wood species)

## Our Product Solutions

Regardless of the unique challenges your home may face when it comes to central heating and cooling, we have a solution that will fit your needs – perfectly. The UNICO product line is made of the highest quality materials, and is assembled in our manufacturing plant in St. Louis, MO.

### Unique Flexible Small Ducts

2" i.d. (3.5" o.d.) or 2.5" i.d. (4.0" o.d.) supply tubes are so small and flexible they go around anything and fit almost anywhere. Design custom homes without HVAC system constraints or retrofit older homes without compromising the architecture.

### Quiet Operation

Supply tubing is made of spun-bound nylon, wrapped in sound-dampening insulation for ultra-quiet operation.

### Fit Anywhere Air Handlers

Compact, modular coils and blowers fit into existing cavities and eliminate the need for space-eating mechanical areas. The UNICO System air handlers can be installed horizontally or vertically for maximum flexibility.

### Smaller Main Air Plenum

At typical 10" and 7" sizes, UNICO main air plenums are 66% smaller than conventional supply trunks. UNICO fits 12 nominal tons in the same built space that a 3 nominal ton conventional system requires. UNICO not only provides greater comfort, but more available built space for the end user.

### Outdoor Unit

The UNICO System can be paired with single or multi-stage refrigerant based outdoor condensing units, air-to-water heat pumps, geothermal heat pump systems, or chilled water units.

### Methods of Heating

The UNICO System can provide heat via heat pump coils, hot water coils, or the UNICO supplemental furnace. Unico is also a perfect compliment to radiant heating.

### Subtle, Blend-In Outlets

No big, ugly metal vents. Our outlets are round or slotted, and with dozens of standard finishes – plus available custom finishes – they will fit any décor. Install in ceiling, floors or sidewalls.

### Architect/Engineer Design Flexibility

The UNICO System small ducting fits in wall and ceilings – no need for soffits. In basements, the plenum is no taller than the main support beam. In many cases, The UNICO System eliminates room build-outs for fan coils and ducting.

### Free Design Services

UNICO provides free design services for architects, engineers, builders, installers and homeowners. All we ask is that you provide a heat gain/heat loss calculation and we'll provide a complete system design. In addition, UNICO specifications can also be downloaded from [www.arcat.com](http://www.arcat.com).

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