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# *The Unico System<sup>®</sup> is the Leader* **IN SMALL-DUCT, HIGH VELOCITY HVAC**

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## *Why Unico?*

The Unico System has been installed in more than 500,000 homes in the U.S and numerous other countries. Manufacturing products in the USA out of a 125,000 square foot facility in Arnold, MO a suburb of St. Louis, MO, the facility includes 15,000 square feet of offices and a 4,000 square foot testing lab which was built in part with a \$2 million dollar grant from the U.S. Department of Energy (DOE).

The Unico System is known for its energy efficiency and Unico is a training partner with DOE on its Zero Energy Ready Home program. This program recognizes homes that are so energy efficient that a renewable energy system such as solar or geothermal can offset all or most of its annual energy consumption. Unico's system design also lends itself to the High Efficiency / Low Load Home standards and for this reason, Unico is often specified by architects and designers when meeting the demands of the HERS ratings of the International Energy Conservation Code (IECC).

More than 2,500 Preferred Unico Contractors nationwide are authorized to install The Unico System<sup>®</sup> in custom, new homes as well as historic homes and buildings. Installers regularly attend thorough in-person and on-line training sessions in order to help solve any design or construction challenge to deliver the best possible heating and air conditioning solutions. The Unico System<sup>®</sup> is recognized by architectural and historic preservation groups for its ability to be installed in older homes - as well as new residential construction - without disruptive soffits and dropped ceilings. The small-diameter, flexible ducting can weave between walls, below floors and above ceilings, quietly delivering heating and cooling through small round or slotted room outlets.

The Unico System also includes high efficiency heating and cooling alternatives for tight spaces and hard-to-reach locations as needed.

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*Don't Compromise*  
**YOUR HOME'S DESIGN**

*The Unico System<sup>®</sup> is a high-efficiency cooling and heating system that can be discreetly retrofitted into historical homes or designed into your custom home without the need for extensive remodeling or intrusive ductwork.*

# OUR COMMITMENT TO YOU

**QUALITY** Through product innovation and commitment to ISO standards, Unico continues to deliver category leading products and services both to the trade and end user communities. Our commitment to being ISO 9001 compliant raises levels of quality, safety, efficiency, and interchangeability. This translates to our products and services meeting consumers' demanding expectations.

**PERFORMANCE** The Unico System® is efficient and innovative by design. It maintains better duct efficiency due to less leakage. "Head-to-toe" drafts are minimized, and the overall noise decibel level is whisper quiet. The air from our system is delivered quietly and seamlessly. The supply tubing is designed to be as efficient as possible and also minimizes sound, bringing decibel levels to the equivalent of a soft whisper. This is due to the nylon inner core and insulation which absorb the sound created from the air.

The high discharge velocity of 1,000-2,000 fpm mixes the air through aspiration for better overall comfort. 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 hardly notice it's running.

**TRAINING** Contractor knowledge and experience are critical to The Unico System operating at the highest level for years to come. We make it easy to learn about The Unico System®, offering three types of training programs: Online Training, Field Training, or In-Factory Training.

**INNOVATION** Unico's innovations are known to ease installation challenges providing years of dependability and worry-free use in applications ranging from new home construction to the retrofitting of historic national landmarks. Unico's design and product innovations are trusted by renowned architects and designers when specifying SDHV system for their unique project needs.

## **CUSTOMER SUPPORT**

At Unico we pride ourselves in providing great customer care, we staff our customer care center with seasoned representatives whose sole purpose is to ensure your success as a Unico customer. Some of the mission critical services we can assist you with are: setting up an account, editing your customer profile, checking inventory, order or shipping status. We help you support your daily business needs and make you successful with your Unico installation.

We understand individuals require various forms of communication to support their busy schedules so we offer email, chat, and direct call in numbers for your convenience.

## **TECHNICAL SUPPORT**

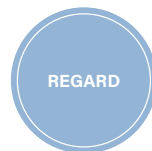
With more than 70 years of industry experience, our Technical Support team can help guide installers through hard-to-tackle projects, offering part numbers, pricing, part match-ups, and any other technical inquiries one might have. The technical support team also helps contractors troubleshoot an installation and process warranty claims.

## **DESIGN SERVICES**

Unico can help design HVAC projects and will lay out the ductwork, outlets, equipment location, and provide a material list, at NO CHARGE! Unico can receive plans in Auto-Cad, PDF, J PEG, and hard copy.

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## *Credibility*



# UNICO ADVANTAGES



## QUIET PERFORMANCE

Our system is delivered quietly and seamlessly. When installed properly our ECM motor technology allows us to “tune” system noise levels and air flow to a gentle whoosh. Each air handler is lined with closed cell, sound deadening insulation which isolates noise and vibrations. You'll feel the comfort our system provides and hardly notice it's running.

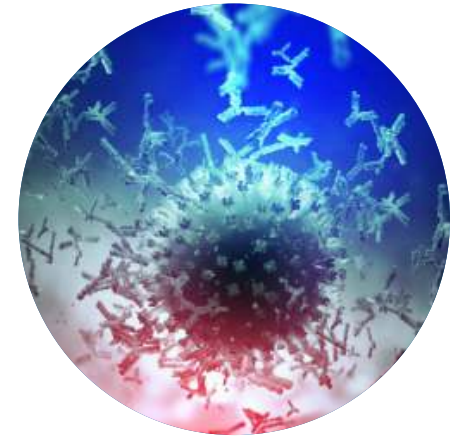


## INDOOR AIR QUALITY (IAQ)

Unico was the first SDHV manufacturer to offer a total Indoor Air Quality Solution featuring UV light. Being a central air system, our system includes the ability for air filtration, disinfection, and ventilation. Additionally, The Unico System goes further with compatibility to MERV 7 through MERV 13 filters, providing an easy means to add UV light, and by integrating ventilation programming within its blower control.

The use of ultraviolet light coupled with the air circulation characteristics of a Unico System make it the perfect IAQ solution for your home and business HVAC applications.

The balance of the Unico System, has many IAQ benefits including the ability to reduce airborne odors, toxic chemical vapors, germs, mold, and bacteria.



## ZONING

The Unico System® can be designed to be a whole home or business solution, or it can be zoned. Zoned systems are often used in a specific part of the home to meet a unique application or design feature. When in need of a zone solution, use Unico for all your design needs!





## LITTLE OR NO REMODELING



The Unico System® fits where other conventional systems cannot—with little or no remodeling required! The modular air handlers and coils can be easily installed into attics, crawlspaces, and closets.

The flexible small tubes can route through existing ceiling, floor, or wall cavities, eliminating the need for unsightly and noisy metal ductwork. Unico installation means less mess, less dust, and quicker installation time!



## DRAFT-FREE, EVEN TEMPERATURES



Traditional systems "dump" the air into the room, causing drafts and uneven temperatures throughout different parts of the room. Through an air principle called aspiration, The Unico System® air enters a room and creates a gentle suction around itself, drawing the room air into its stream of air and evenly mixing the air in the room. Aspiration creates an even, draft-free environment with less than a 2° differential between wall-to-wall and floor-to-ceiling and provides 30% greater moisture removal. This means you can have your thermostat set higher than you typically, would saving you money.



## TOTAL OPERATING COST



All of the advantages stated above lead to lower annual fuel costs for many applications, such as low load homes and other hard-to-condition homes. For example, the greater dehumidification reduces the cost and the need to run a separate dehumidifier in a low load home.

*\*Florida Solar Energy equated a 14-seer small-duct system having less total energy use than a 20-seer traditional ducted unit.*

# KEY FEATURES

## TECHNOLOGY THAT IS BETTER FOR THE ENVIRONMENT

If you're building the home of the future today, The Unico System® is the primary choice for your energy efficient heating and cooling needs. Visionary builders and savvy homeowners who want the very best in green, energy saving technology are requesting The Unico System® for their state-of-the-art forward-thinking home designs. Here's Why:

### LOW LEAKAGE STANDARDS

Conventional duct systems suffer from air leakage of between 20% and 50%. When installed properly with joints sealed during installation, The Unico System® meets or exceeds the parameters set forth for Low Leakage Standard claims. That means all of the air - and comfort - your system is generating is being delivered to warm or cool your home and not being lost to the environment.

### THERMAL LOSS - MULTIPLE R VALUE OPTIONS

The small diameter of our plenum and flexible ductwork ensures that thermal losses are smaller than conventional ductwork, which has a much larger surface area. In addition, we offer our ductwork in multiple R-values to save customers money and comply with the various code requirements across the US.

### COMPATIBLE WITH INVERTER TECHNOLOGY

Inverter technology matched inside and out, means that your system is programmed to use only the energy it absolutely requires to deliver the heating or cooling you need now. On a mild day, you may only need a portion of your system's total capacity to make you comfortable. The Unico System® is compatible with inverter technology and it is designed and engineered to match your comfort needs all while optimizing energy efficiency.

### FIT, FORM AND FINISH

Our products fit into a tighter space and seamlessly integrate with energy efficient construction. They bring the highest level of insulation, air filtration, and use the most efficient inverters on the market today. End users experience lower humidity, more even room temperatures, and draft-free operation. The Unico System® has achieved accolades and recommendations from designers and installers for its design flexibility and overall efficiency.

### COMPATIBLE WITH HIGH EFFICIENCY HOMES

The Unico System® is repeatedly used in homes and projects where LEED, HERS and Net Zero Classifications are called upon to meet. Several of our United States government historical homes and projects on the national registry recognize this product's unique efficiency by selecting it as the product choice for its prestigious DOE Challenge Homes.

### DEDICATION TO ADVANCING DESIGNS

Our company has a dedicated group of professionals supporting the design and sale of our products. Let one of our professionals introduce you to the product with a live 15 minute webinar on The Unico System, or feel free to send us the electronic plan of your project and our design professionals will do a free heating / cooling calculation and design for you.

## LOCAL UNICO REPRESENTATIVES

Unico has a network of technical rep agencies throughout the country who can provide in-field technical support, training, contractor support, and much more.

Find your local expert by visiting:  
[www.unicosystem.com/your-local-expert/](http://www.unicosystem.com/your-local-expert/)



## TRAINING

The Unico headquarters and manufacturing facility is located near St. Louis, Missouri, as is our operational training facility. Since 1985, we have trained HVAC professionals on the advantages of the Unico Small-Duct System. Being an HVAC professional is a true commitment to excellence and staying up-to-date with the latest product improvements and industry trends can be a daunting challenge. That is why we set up “our state of the art” Unico University as a one-stop shop for all things Unico, providing HVAC contractors with the resources and training necessary to properly apply and install Unico.

Unico University offers three different training methods for installing contractors to choose from: Online Training, Field Training or In-Factory Training. Sign up today at:  
[www.unicosystem.com/training](http://www.unicosystem.com/training)



## WANT TO TAKE YOUR BUSINESS TO A HIGHER LEVEL?



Unico's UPC program provides an upgraded warranty, a website listing on the Unico website contractor finder, inclusion into our lead generation program, advertising materials, and so much more!

To find out how to become a UPC, visit  
[www.unicosystem.com/upc](http://www.unicosystem.com/upc)

## TRADITIONAL HOMES

*How to apply The Unico System®*

### Supply Tubing

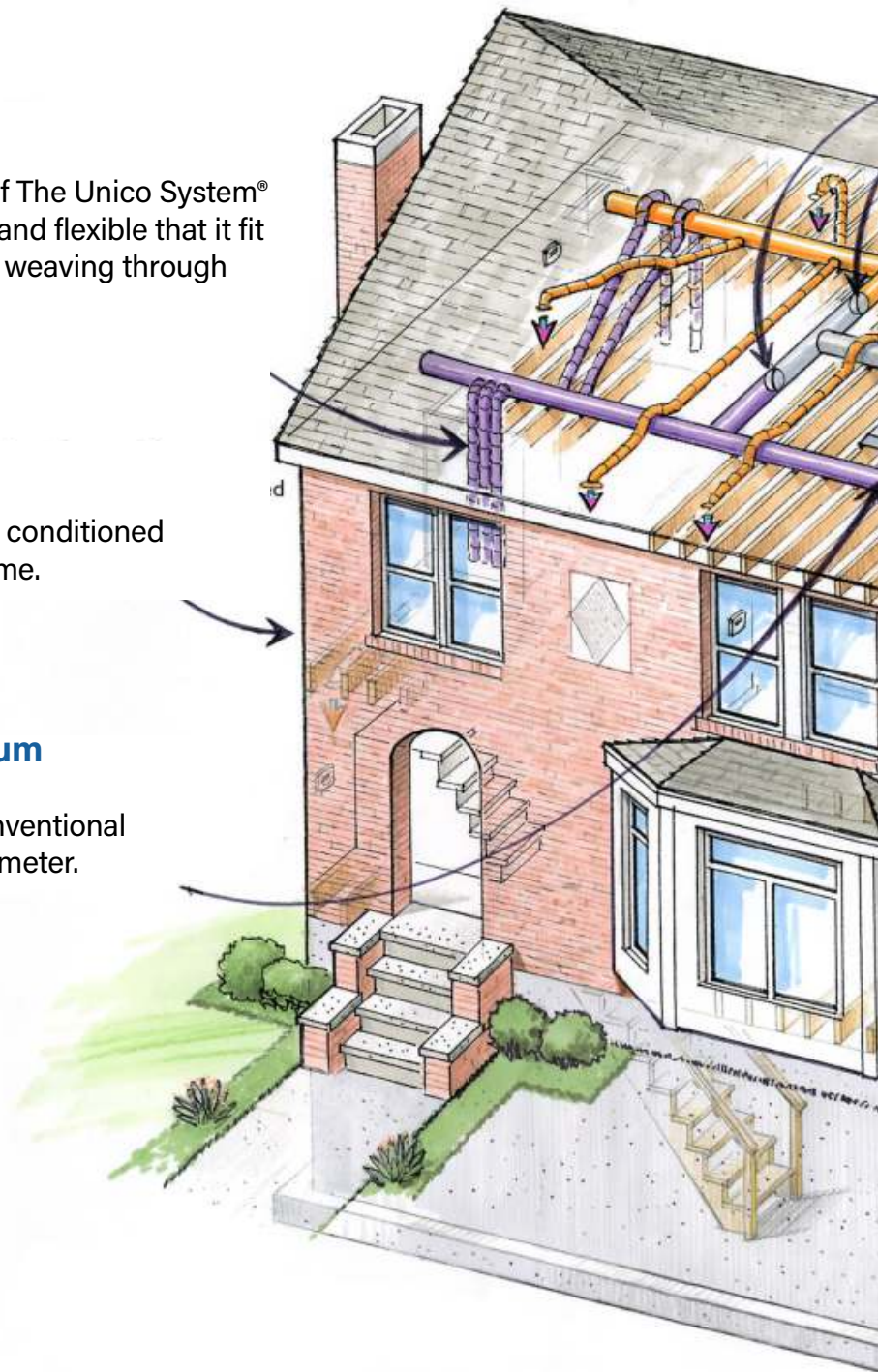
The 3½" outer diameter of The Unico System® supply tubing is so small and flexible that it fits right into existing homes, weaving through ceiling, walls, and floors.

### The Unico System®

Fits anywhere and brings conditioned comfort to your entire home.

### Compact Main Plenum

Just a third the size of conventional ducting — 7", 9", or 10" diameter.





## Zone Dampers

Individual rooms can always be zoned with The Unico System®.

## Unico Air Handler

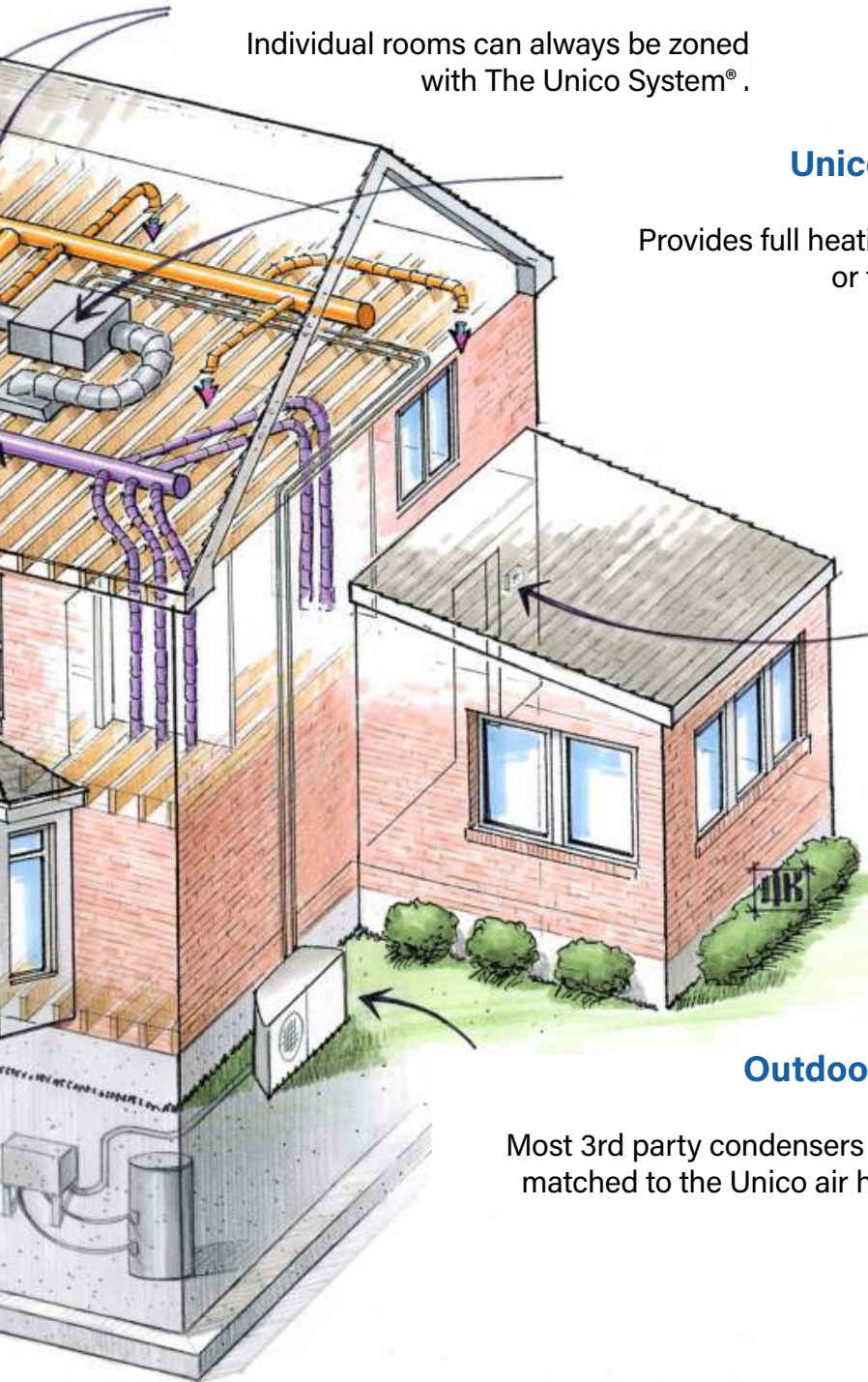
Provides full heating and cooling for the entire house.

## Thermostat

Fully compatible with 3rd party thermostats.

## Outdoor Unit

Most 3rd party condensers can be matched to the Unico air handler.



## CUSTOM HOMES

*How to apply The Unico System®*

### Zoning

You can zone The Unico System® with some 3rd party zoning systems.

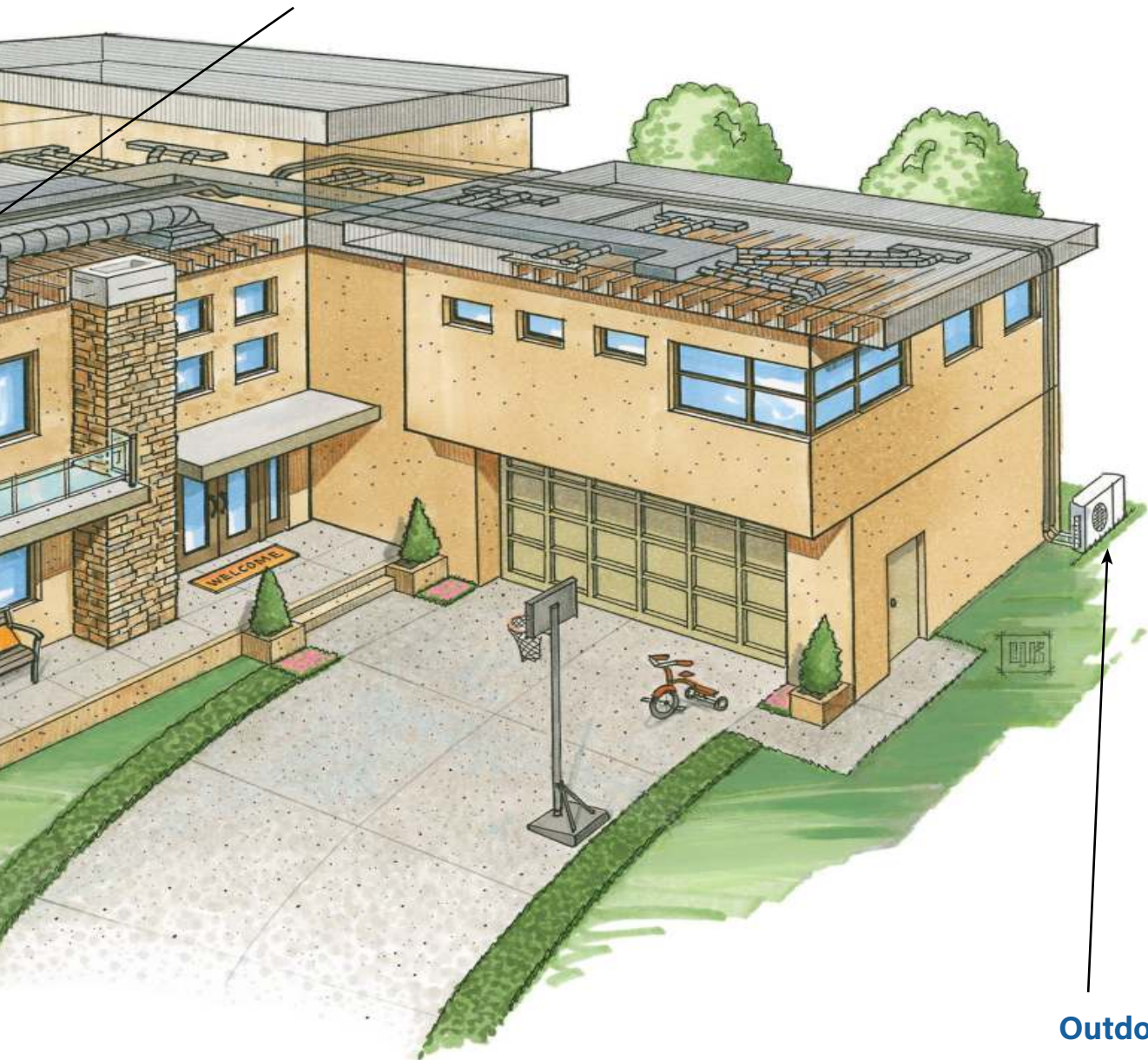


### EC Blowers

Fresh air from outside can always be added with Unico.

## Unico Air Handler

The Unico horizontal air handler can fit in tight spaces.



### Vertical Air Handler Unit

Our vertical air handler fits into a 24" by 24" space, perfect for a tight mechanical room. We offer heating and cooling options for Unico air handlers.

### Outdoor Unit

Most 3rd party condensers can be matched to the Unico air handler.