

American Standard[®]
HEATING & AIR CONDITIONING



BUILT TO A HIGHER STANDARD

WWW.AMERICANSTANDARDAIR.COM

THE FUTURE OF HOME COMFORT



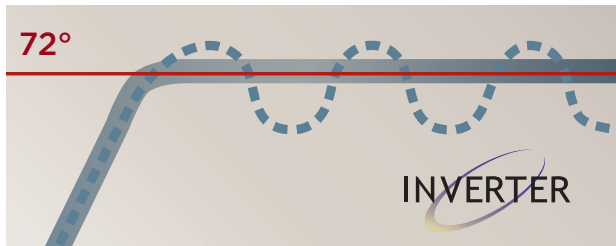
We offer a superior alternative to traditional HVAC systems. Our ductless and ducted heating and cooling systems focus on individual rooms and living spaces, versus a central system's one-size-fits-all approach. Our systems are more energy-efficient, flexible, and easier to install — as proven by decades of successful use in Europe, Asia, and across the globe. It's easy to understand why ductless (or zoned) systems are the fastest growing segment of the American air-conditioning and heating market. Our products also reduce energy costs and easily provide solutions for:

- ▶ **Hot and Cold Rooms**
- ▶ **Additions and Renovations**
- ▶ **Enclosed Patios**
- ▶ **Homes Without Space For Ductwork**
- ▶ **Larger, Multi-zone Living Spaces**
- ▶ **Entire Home**



ADVANCED FEATURES FOR GREATER COMFORT, EFFICIENCY AND CONVENIENCE

Put Your Comfort on Cruise Control



Thanks to our advanced INVERTER-driven compressor technology, you can achieve consistent temperatures throughout your space while saving energy during both the summer and winter months. The compressor speed is controlled to maximize efficiency, changing speeds according to the heating and cooling needs of your room(s). Like a car's cruise control, the system varies the compressor speed, which reduces power consumption for energy savings. This is different from conventional systems, which start and stop repetitively, wasting energy.

Detect and Control Temperature Fluctuations



Our Pro-Heat™ wall-mounted models have the 3D i-see Sensor™. This infrared human sensing device scans the room and discovers the location of human heat signatures. The sensor also measures floor temperature in order to deliver conditioned air to those occupied areas that need it using double-vane airflow and motorized vertical vanes.

PRO-HEAT™ When You Need It

The advances in the heating performance of our units are unmatched. Our available Pro-Heat™ technology can heat your space effectively even when temperatures outside are down to -13° F. No cold air blows when the unit is turned on. Our technology warms the air first.



Multiple Filters for Cleaner, Healthier Air



All indoor models use a sophisticated multi-part filtration system to reduce contaminants such as allergens, viruses and bacteria from the air. This combination of filters provides a healthier breathing environment for the home.

Quiet as a Whisper



Both the outdoor and indoor units operate quietly. The indoor units can operate as low as 19dB(A) – that's quieter than a human whisper.

THE PERFECT SOLUTION TO YOUR

High Energy Costs

Why pay to cool and heat your home all year long when you only live in a few rooms at a time? With ductless, you can actively condition the spaces you live in at the same time you can reduce energy costs in the rooms you don't use. Plus, INVERTER-driven compressors automatically adjust to changing conditions delivering ideal comfort while only using the energy that is needed.

- ▶ INVERTER-driven heating performance is far more efficient and effective than traditional heat pumps
- ▶ Cooling is up to 40% more efficient than standard systems
- ▶ Single and multi-zone systems available to fit any room or your entire home
- ▶ Options include more than 50 ENERGY STAR® certified systems



Hot or Cold Problem Rooms

An American Home Comfort Study (AHCS) reports that 67 percent of homes in the U.S. have a room that's too hot in the summer or too cold in the winter. It's a common problem with ducted forced air systems — one that can be solved quite simply with a ductless system.

- ▶ The indoor unit senses the return air and makes automatic adjustments to keep the room at the desired temperature
- ▶ Installation is as simple as mounting units, connecting the refrigerant lines and making a few electrical connections
- ▶ No new ductwork required, so installation is fast and doesn't require any messy renovation
- ▶ Options for single rooms, multiple rooms or your entire home



COOLING AND HEATING PROBLEMS

Renovations and New Homes

You don't have to install ductwork to make a living space comfortable. Ductless solutions require only a 3" opening for two refrigerant lines, control wiring and electrical connections. Ductless is the perfect solution for new additions, for renovated bedrooms and office spaces, for garage and basement workshops or studios. And it's a lifesaver for any home that can't accommodate ductwork.

- ▶ Outdoor units come in a wide variety of capacities, are compact and easy to install and camouflage
- ▶ Attractive enclosures are available to beautify and protect outside refrigerant and electric lines
- ▶ Indoor units can be installed anywhere in the room — on ceiling, wall, or floor



Allergens and Odors

Our heating and cooling systems use a sophisticated multi-part filter system to reduce odors, allergens, viruses and bacteria from the air as it circulates within a room.

- ▶ Hybrid filter absorbs odor-causing gases
- ▶ Blue-enzyme, anti-allergen filter on select models reduces germs, bacteria and viruses and helps trap dust, pollens, mites and other particles that plague allergy sufferers
- ▶ With regular cleaning, filters can last up to 10 years
- ▶ Filters are easy to clean and maintain — you can do it in a matter of minutes



INDOOR UNITS

Indoor units allow you to create individual comfort zones.

Control the temperature within any space using ductless models including wall-, floor-, and ceiling-mounted options. Ducted options are available for larger or smaller zone conditioning. You can fine-tune your comfort while you save money by heating and cooling only the spaces you use.

Wall-mounted

Slim, wall-mounted units provide individual room comfort control. Deluxe wall units are available with several energy saving features.



Perfect for attics, sunrooms and rooms with low walls.

Floor-mounted

Ideal for areas that are smaller or don't have as much wall space.



INDOOR UNITS



Ceiling-recessed Cassette

One-way or four-way airflow patterns available for better air distribution in a less obtrusive style.

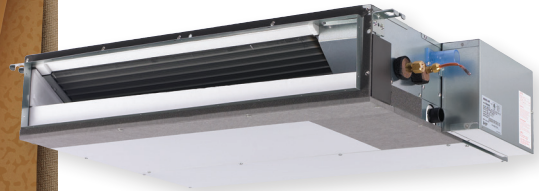


Perfect for bedrooms, offices, basements, sunrooms and additions.



Horizontal-ducted

Provides low-profile comfort and efficiency while staying hidden in ceiling or floor.



Perfect for master bedrooms, baths, additions, rooms with attics.
Soffit or crawl space available.



Multi-position-ducted

The perfect solution for larger zones or the entire floor.



OUTDOOR UNITS



Single and Multi-zone Outdoor Units

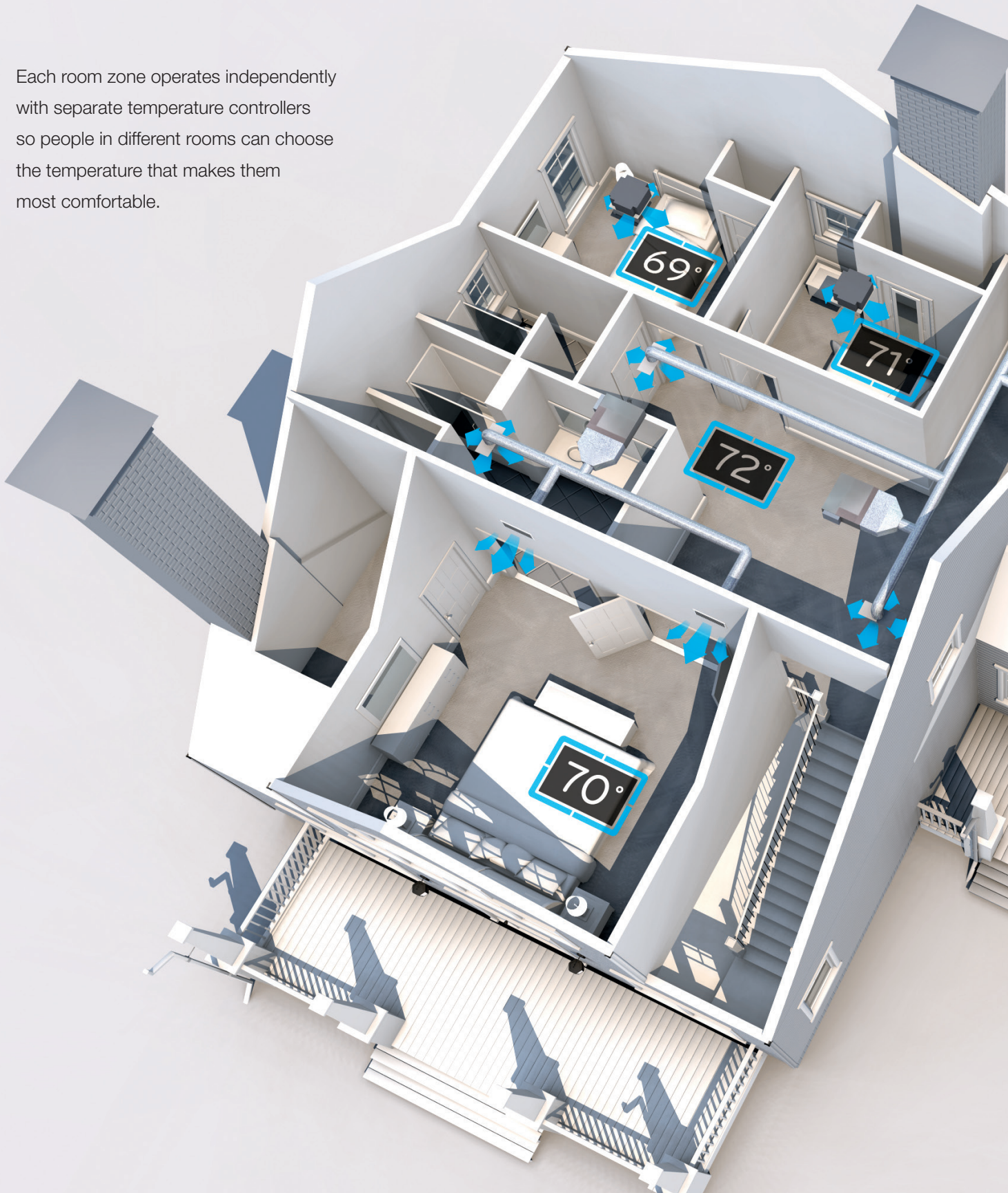
An assortment of models provides a wide range of heating and cooling capacity from 1,600 to 54,000 Btu/h. Each specifically designed to power a single-indoor unit for single room applications — or up to eight indoor units for multiple-room applications. More than 50 ENERGY STAR® certified systems including efficiency ratings as high as 33.1 SEER. All units are extremely quiet when compared to conventional models. Talk to your authorized contractor about which combination will best fit your heating and cooling needs.

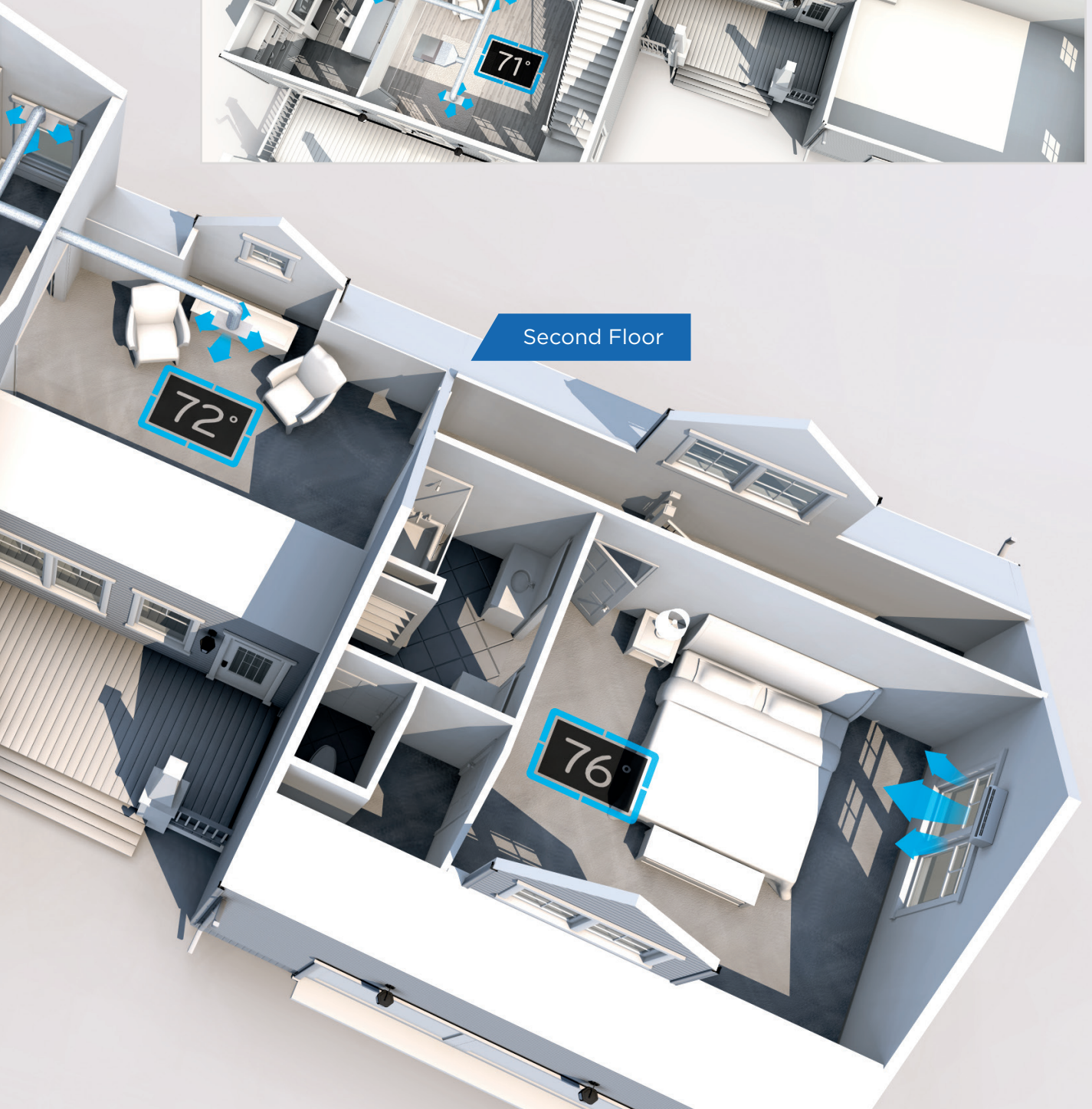
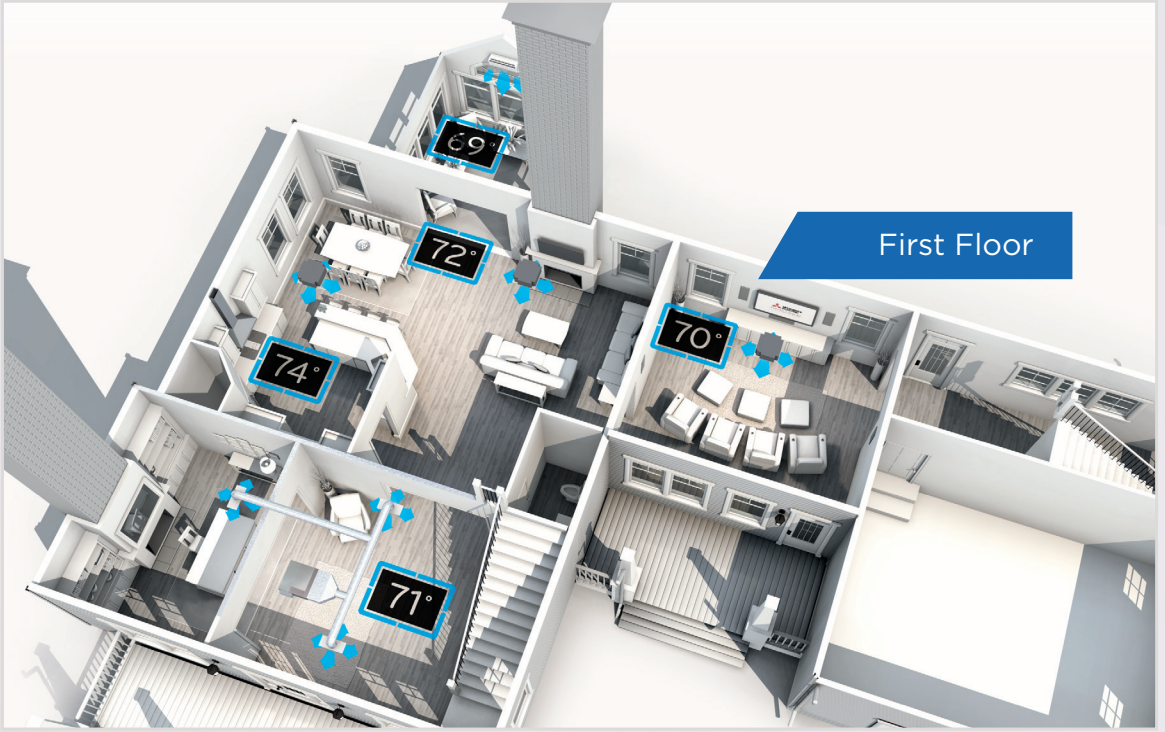


MULTI-ZONE APPLICATIONS

Multi-zone units allow you to create an oasis of comfort throughout your whole house in the rooms you use most.

Each room zone operates independently with separate temperature controllers so people in different rooms can choose the temperature that makes them most comfortable.





SINGLE-ZONE APPLICATIONS

Single rooms can now have ultimate comfort with the power of precise control over hot and cold spots.

Hot or Cold Rooms



Sunrooms



Kitchens



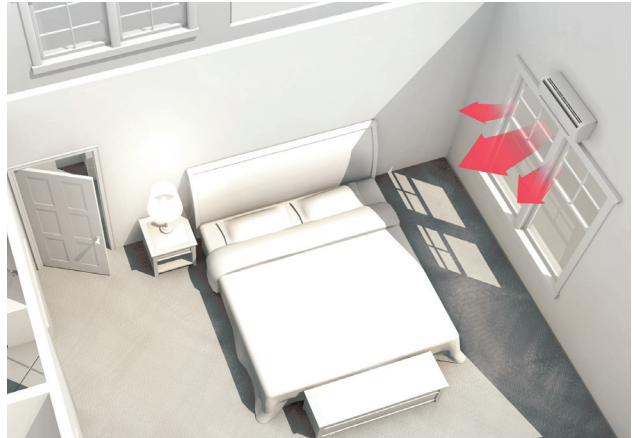
Master Bedrooms



Living Rooms / Media Rooms



Bonus Rooms / Guest Rooms



HOW OUR DUCTLESS SYSTEM WORKS

Ductless heat pump systems pump heated or cooled refrigerant directly to indoor air-handling units through small refrigerant pipes. Each living space has an indoor unit and temperature controller. Here's how the system works in a single room application.

Indoor Unit uses refrigerant in the coil to heat or cool air and quietly delivers where you need it in the living room space.

Outdoor Unit has an INVERTER-driven compressor pump that warms or cools refrigerant and sends it inside to an air handler through small pipes. Power and control wiring connects the outdoor to the indoor unit also.



Wireless Controller conveniently allows you to adjust temperature, fan speed, and more... at the touch of a button.



WIRELESSLY CONTROL HOME COMFORT FROM ANY PLACE, AT ANY TIME



kumo cloud® is an app and web service that allows you to remotely and wirelessly control single- or multi-zone systems.

With kumo cloud, along with your smartphone or tablet device, you can manage multiple venues, such as home, work, and vacation locations.

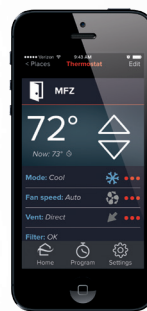
kumo cloud also controls functions like turning the system on/off, system mode, fan speed, and vane direction. In addition, it can monitor the filter and error codes.

To access kumo cloud, simply download the free mobile app (kumo cloud for iOS, Android and Fire OS can be found in the app stores). A wireless Interface, (PAC-USWHS002-WF-1), is also required for each indoor unit.



Optional MCCH1 Portable Central Controller

Full control of up to 16 RedLINK™ devices from anywhere in your home. Does not interfere with other wireless devices.



Optional MOS1 Outside Air Sensor

Monitors outside air temperature and humidity for display on MHK1 Remote Controller and MCCH1 Portable Central Controller.



Optional Thermostat Interface

Allows you to connect and control your system with other popular controllers on the market. Provides 3 input terminals to control fan speed control: High, Medium, and Low. One Thermostat Interface is needed per indoor unit.



MHK1 Wireless Wall-mounted Remote Controller and Wireless Receiver

Allows you to connect and control your system with other popular controllers on the market. Provides 3 input terminals to control fan speed control: High, Medium, and Low. One Thermostat Interface is needed per indoor unit.





©2018 Mitsubishi Electric Trane US HVAC, LLC. All rights reserved. Mitsubishi Electric, Lossnay, and the three-diamond logo are trademarks of Mitsubishi Electric Corporation. H2i and kumo cloud are registered trademarks of Mitsubishi Electric US, Inc. All other product names mentioned herein are trademarks or registered trademarks of their respective owners.

For more information visit
www.americanstandardair.com