

# Ductless Heating and Cooling



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## What Is Ductless?

You guessed it – no ductwork. With a Carrier® Ductless system, you don't need it. In 1902, Willis Carrier created the world's first modern air conditioner, forever changing indoor life. More than a century later we're still striving to improve upon our founder's breakthroughs, bringing you new ways to more efficiently, more quietly and more conveniently heat and cool your space with ductless heating and cooling systems. Whether you want more complete year-round climate control over a specific room or area of your home, or you live in an older home without ductwork, Carrier Ductless systems are the most efficient way to expand your comfort, no matter the challenges your space presents.

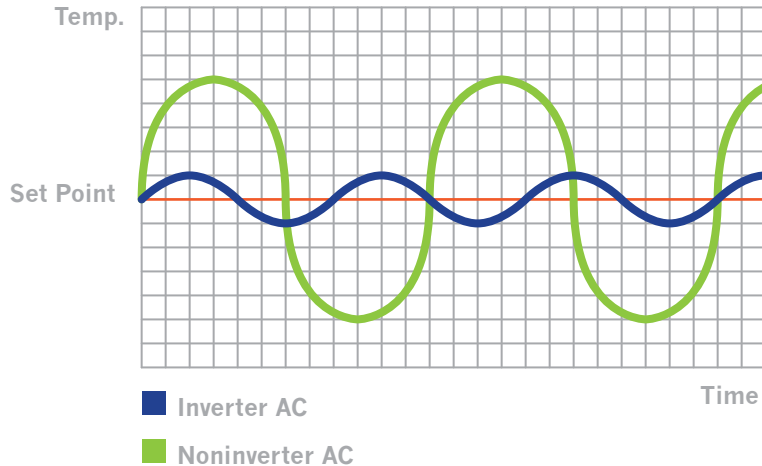
**Whatever your needs. Wherever your space. However you use it.**



# How Does It Work?

**Pretty darn well, if we do say so ourselves.**

Single or multi-zone systems. Heating and cooling or just cooling. Whatever your needs, wherever your space, however you use it, Carrier® Ductless systems offer customizable solutions that are efficient and quiet.



## INVERTER Technology

We're not blowing hot air. Ductless systems from Carrier use INVERTER technology, operating at variable speeds, which results in more-even temperature control, greater energy savings and powerful dehumidification. The compressor speed adjusts automatically, much like a car on cruise control, so the system isn't constantly running at maximum capacity and only draws energy when it's needed.

## Single-zone

Carrier® Ductless heat pumps and air conditioners can be installed so that one indoor unit connects to one outdoor compressor. The compressor carries refrigerant and power to the interior unit via a small pipe, running through a two-inch opening, installed typically in only a few hours with very little impact to your home.



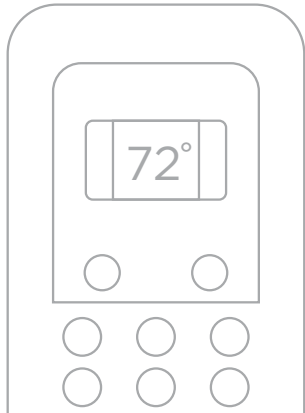
## Multi-zone

Need to bring complete comfort control to more than one room in your home? One outdoor compressor can power up to nine indoor units, each separately controlled by a wireless remote, offering you flexible options for configuring your comfort solutions. You can even choose to add units to your compressor in the future after you've installed just two indoor units (depending on the maximum number of connectable units), allowing for more streamlined expansion or renovation of your home as time and budget allow.

# Advantages and Benefits

## Minimal Installation

No ductwork means no patching, no painting and no hassle. Configuring your Carrier® Ductless system is simple, with installation that requires only a small hole in the wall to connect pipe from the indoor unit itself to the compressor unit outside. The outdoor compressor unit also provides power to the indoor unit, so there's no need for additional indoor wiring.



## Precise Heating and Cooling

Carrier Ductless systems deliver personalized comfort control, no matter where indoor units are placed. Want a cooler home office, but a warmer bedroom? No problem. Because units can be controlled separately, rooms can be set to different temperatures, depending on your comfort needs. Ductless systems also operate so quietly that they can be seamlessly integrated inside without disrupting even the most peaceful of spaces.

## Extreme Comfort Performance

Carrier® Ductless heat pump systems perform in even the most extreme conditions, providing year-round comfort control, no matter what the weather's like outside. Even at -22° F, select systems can heat at 80% capacity. They can also cool at 100% capacity when the outdoor temperature is 130° F.

## Efficiency

Carrier® Ductless heating and cooling solutions provide efficient ways to keep you comfortable at home.

INVERTER technology ensures that your system provides precise temperature control while only using the energy that's needed at any given time. The INVERTER compressor automatically adjusts its speed to match indoor comfort needs.

Apart from the energy efficiency of the systems themselves, the configuration options that Ductless systems offer can also result in greater energy savings. By targeting only the areas of your home you want to heat or cool, you're not wasting energy on rooms that are not being occupied or don't get as much use.

## System Efficiency Is Measured in Two Ways:

### Seasonal Energy Efficiency Ratio (SEER)

SEER is the standard measure by which the cooling efficiency of air conditioners and heat pumps is rated. The higher the SEER number, the greater the efficiency, the greater the energy savings.

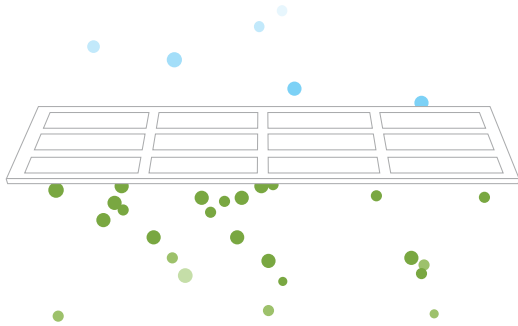
### Heating Seasonal Performance Factor (HSPF)

HSPF is the way in which the heating efficiency of heat pumps is measured. Just like SEER, the higher the HSPF number, the more efficient the heat pump, the more money you save to keep your home comfortable when temperatures are low.



## Flexibility

Carrier® Ductless systems can be easily integrated into any home, no matter the demands of the space. With endless configuration options, Ductless works where traditional HVAC doesn't and offers easy solutions for rooms without ductwork or with hot or cold spots. Carrier Ductless systems also allow for a long line length between outdoor compressor and indoor units, offering more options for installation between floors of your home. Also, because of the low operating noise of Carrier Ductless systems, you can enjoy spending time outside on your deck or inside in your living room in peace and quiet. Ductless indoor unit model styles can also be mixed and matched based on the specific needs of each separate space in your home. High wall units can be paired with ducted, console and cassette units hooked up to an outdoor compressor unit for multi-zone systems.



## Allergy Control

With filters in each indoor unit, Carrier Ductless systems provide cleaner air in the rooms where they are installed. With Ductless, it's not just about controlling air temperature, it's about controlling air quality. When circulation is contained within a space, there's no cross-contamination of air between rooms.



## Put Ductless to Work for You.

Carrier® Ductless systems not only offer solutions for spaces without ductwork, they also work well in areas that conventional heating or cooling systems don't adequately keep comfortable, allowing you to personalize your comfort no matter where you are in your home.



## Hot or Cold Spots

For rooms with hot or cold spots, Carrier® Ductless systems can provide more complete control, targeting those areas with uneven temperatures for more consistent comfort throughout your whole home.



## Renovations and Additions

Carrier® Ductless systems can be easily integrated into new architecture. Because they don't require a connection to existing ductwork, no special accommodations need to be made for additional space between walls or above ceilings.



## Empty Nests

Less kids means more space. In a home where some rooms are no longer being used every day, Carrier® Ductless systems can be configured so you only heat or cool spaces when you're using them, and you can save on energy when you're not.



## Converted Attics and Basements

Ductless systems work well in rooms with tight spaces and/or hard-to-control temperatures. INVERTER technology allows the system to run longer cycles at lower fan speeds, which helps the system dehumidify while cooling. Less humidity means more comfort, even at higher temperatures in attics, and better control of comfort in lower natural-light conditions typical in basements.



## Sunrooms

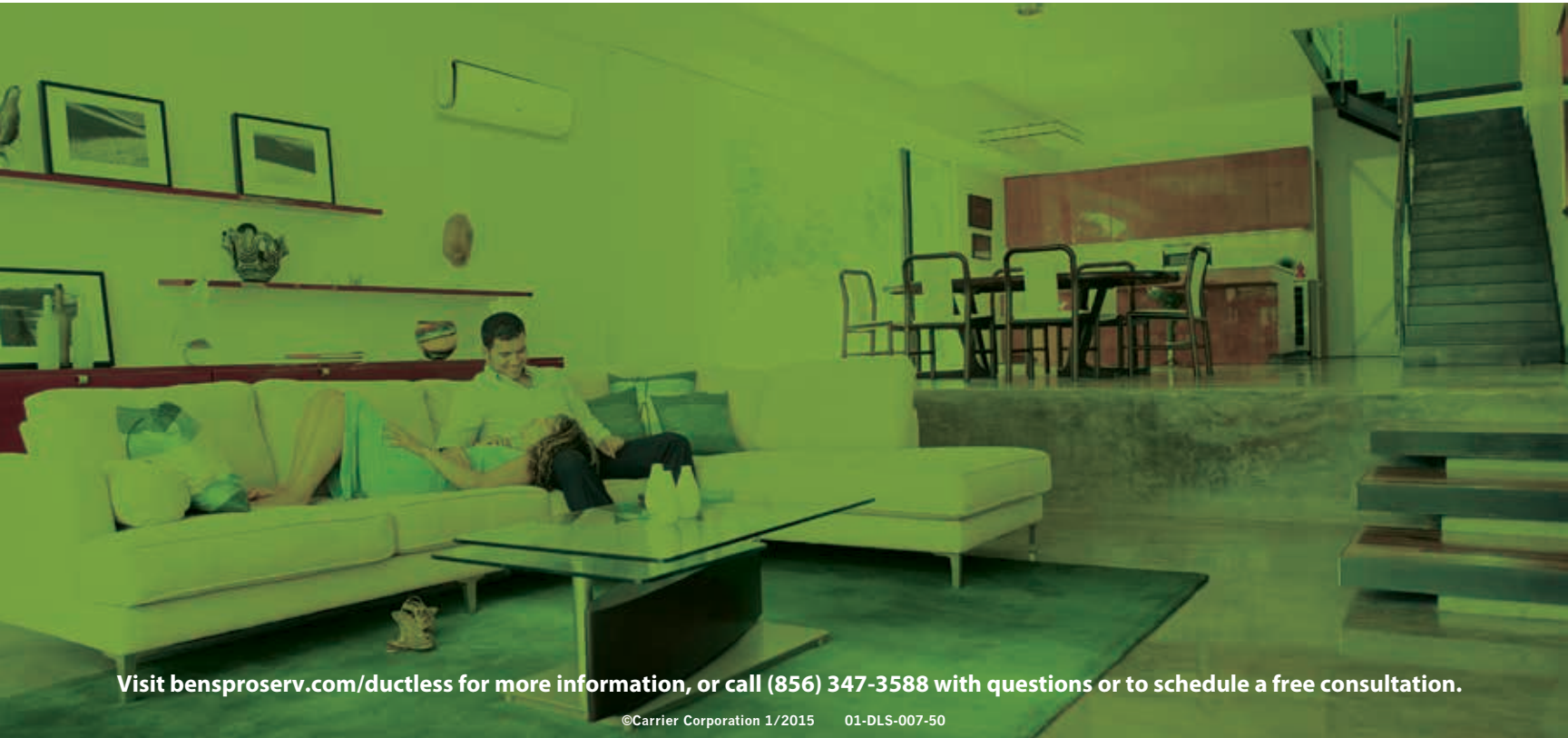
In a room with a lot of windows and less wall space to hang a unit (as in a sunroom with mostly glass walls), a console unit can be installed detached from the wall on feet, allowing for lower-impact installation.



## Garages

For a space that may not be connected to your home's central HVAC, Ductless offers compact cooling and heating power to keep you comfortable all year long.





Visit [bensproserv.com/ductless](https://bensproserv.com/ductless) for more information, or call (856) 347-3588 with questions or to schedule a free consultation.

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