A man in a grey t-shirt and blue jeans is holding a baby in an orange shirt. They are in a modern living room with a grey sofa, orange and white cushions, and a wooden floor. A Mitsubishi Electric air conditioner is mounted on the wall. A red banner is in the bottom left corner.

Mitsubishi Electric  
systems use the  
minimum amount  
of energy needed to  
maintain your desired  
temperature.

## Technology that puts comfort in your hands

The essential components of a zoned air conditioning and heating system are the outdoor unit, the indoor unit and the smart comfort controls. The system operates by transferring heat to and from an outdoor unit to one or more indoor units. The units are connected by pipes containing refrigerant, a substance that absorbs heat.

In cooling mode, the refrigerant absorbs heat inside the home and produces colder air by transferring refrigerant from the indoor units to the outdoor unit, where the heat is expelled.

In heating mode, the process is reversed and the refrigerant absorbs heat outside of the home and provides warmth by transferring the refrigerant from the outdoor unit to the indoor units. This method of heat transfer — which works even in freezing weather — is powered by electricity and is much greener than conventional systems that burn fossil fuels during heating.

The outdoor unit is equipped with an INVERTER that enables it to quickly change the amount of power it uses and the amount of refrigerant it transfers to and from the indoor units. With the INVERTER, the outdoor unit only uses the precise amount of power needed to reach each zone's preferred temperature.



### Live in a cold climate?

Even in outside temperatures as cold as -13° F, our **Hyper-Heating INVERTER® (H2i®)** technology will keep your home and business comfortable. Well-suited for climates in the northern half of the United States, H2i systems continue to provide heating when temperatures drop well below zero.



**H2i plus™** takes hyper-heating technology to a new level providing 100% heating capacity down to -5°F outdoor ambient (without wind chill) temperature.



This diagram shows heat transfer between the outdoor unit and indoor unit during heating operation.



## The INVERTER Advantage

# Maximize efficiency and minimize your power bill.

The less sophisticated, conventional air conditioning and heating systems run at full power until it reaches a set temperature and then stops, only to turn on again — sometimes within an hour — as the temperature becomes uncomfortable. Each time the system turns on its noisy outdoor unit, it uses more energy than it does during regular operation.

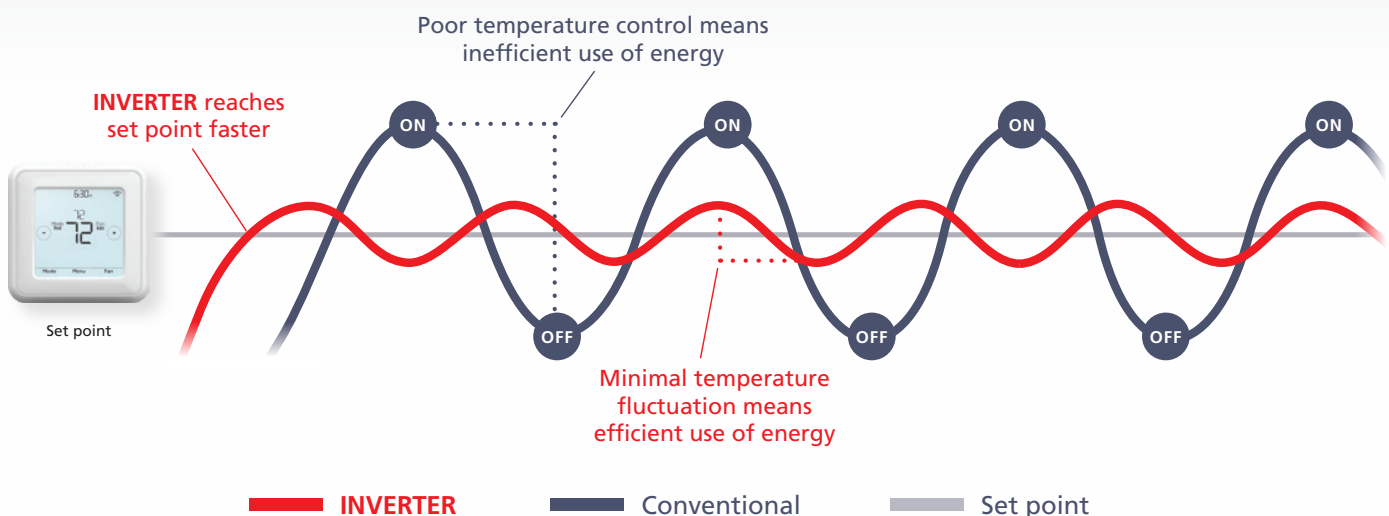
The INVERTER, at the heart of our system, eliminates the wasteful start and stop cycle. Just as your heart always beats, but automatically beats faster when you exercise, the system is always active with the INVERTER enabling it to automatically adjust conditioning when its temperature sensors detect even subtle changes. You don't have to think about it and the system is so quiet you won't hear it either. Rooms are cooled and heated faster and more efficiently. The INVERTER regulates energy consumption so that the system only uses the precise amount of energy needed to keep each room at the temperature you choose. This is greener and more sustainable than running at full power like conventional systems and can reduce energy consumption by up to 40 percent.



Reduce energy consumption by up to **40%** annually with the INVERTER Advantage




## INVERTER vs. Conventional System Operation





Ducted Air Handler  
systems deliver  
efficient comfort  
using your home's  
existing ductwork.



A man with a beard, wearing a blue and white checkered shirt, is sitting on a white shaggy rug in a living room. He is smiling and playing a blue and yellow ukulele. A baby, wearing a light blue onesie, is sitting next to him, playing with colorful stacking toys. In the background, there is a white sofa with patterned cushions, a white air conditioner mounted on the wall, and several white floating shelves holding books. A large window with white curtains is on the left, showing a view of a house and a fence. A red diagonal banner is in the bottom left corner.

It's never been easier  
to keep everyone  
in your house  
comfortable, without  
spending a fortune  
on energy bills.

## Understanding Zoning

# Units are available in single-zone and multi-zone versions

With single-zone equipment, one outdoor unit connects to one indoor unit (see pages 18-25 for indoor units available). This option is ideal if you only need cooling and heating in a single space.

With multi-zone equipment, one outdoor unit can connect up to eight indoor units. This option is perfect if you need cooling and heating in multiple spaces with different functions, such as a nursery versus a kitchen or an office versus a conference room.



**A single-zone system is ideal if you only need cooling and heating in a single space.**



**Multi-zone systems are designed for cooling and heating multiple spaces.**

Each zone is served by its own indoor unit. Indoor units come in a variety of forms including wall-mounted units, floor-mounted units, ceiling cassettes and air handlers.

Wall-mounted units tend to be the most popular, but a floor-mounted unit could be an attractive option for a sun room that has windows, but no wall space. A high-performance air handler could replace an older system, such as a central system or boiler that previously cooled or heated an open space.

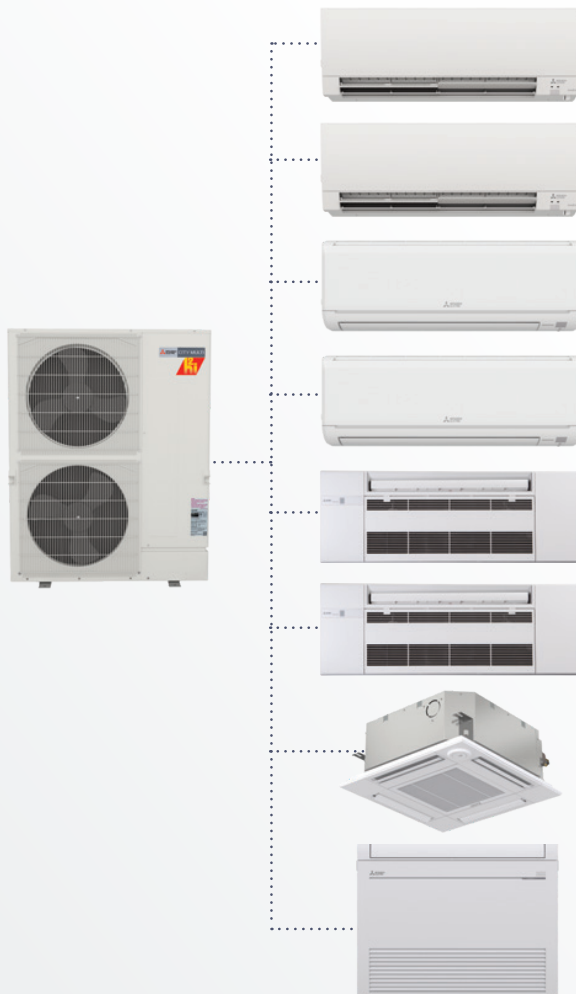
## Single-zone units

One outdoor unit connects to one indoor unit



## Multi-zone units

One outdoor unit can connect to up to eight indoor units





## Air Filtration

# Breathe easier with advanced filtration

Our indoor units don't just keep each room in your home at the perfect temperature; they continuously clean the air of allergens, dust, viruses and bacteria. Each room's indoor unit is equipped with filters to directly improve your air quality while the conventional system has only one filter installed in the central unit. The filters are washable and last up to 10 years, which saves you money on maintenance. Filters available for our indoor units include:



### Nano Platinum Filter

This filter incorporates nanometer-sized platinum-ceramic particles that kill bacteria and deodorize air.



### Deodorizing Filter

These platinum deodorizing filters use nanotechnology to absorb odors and neutralize the worst smells.



### Electrostatic Anti-Allergy Enzyme Filter

The electrostatic anti-allergy enzyme filter uses an enzyme catalyst to break down allergen proteins and transform them into non-allergen proteins. That means lose the sneezing, but keep the cat.

