

DAIKIN AC

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leading HVAC manufacturer



Green City Heating & Air Conditioning Features DAIKIN Products

What is a Mini-Split Heat Pump ? (Also Called “Ductless Air Conditioner”)

A ductless mini split system is a type of cooling and heating system based on highly efficient heat pumps that are:

Ductless

It doesn't use or require ductwork - you know... that bulky network of boxes or tubes of metal or plastic that had to be run through your home's ceiling, walls, or even floors and routed through different parts of your home. If you have a central air conditioning unit, then it would use baseboard heaters, or radiators. With ductless mini split, you can ditch these ducts for good.

Duct losses can account for more than 30% of energy consumption for air conditioning, especially if the ducts are in an unconditioned space such as an attic.



‘Mini’-sized

They are compact, which means they are designed to be small but perform the same or better than other systems. Many experience that it is more powerful, has more energy-efficiency, far more versatile, can have significant cost-savings, and because of its efficiency is more environment-friendly than other older AC technologies.

Have a Split-design

The term “split” means that the way the equipment has been designed is to separate the interconnected components. The split design includes an outdoor compressor unit and an indoor evaporator unit, which typically, is also called the air handler. Most traditional ACs, especially window-type units, are noisy and clunky because they incorporate the compressor and the air handler in a single unit that is mounted in the house (window or other wall opening). With a ductless mini split system, the noisy compressor unit is located completely outside the house. What you see inside is the compact, highly unobtrusive air handler which does not have the noisier components of the compressor.



In a mini split system, the outdoor unit that is placed outside the house is connected to the indoor unit which is mounted inside your home by a set of piping and wiring systems that are usually passed through a small hole in the wall (usually just a 2 ½-inch hole or a 3-inch hole), linking both units as one single system. The pipes are usually the cooper

tubing called line set or refrigerant lines, while the wires are usually the electrical wiring system connects the unit to a power outlet.



Types of Ductless Air Conditioner Systems

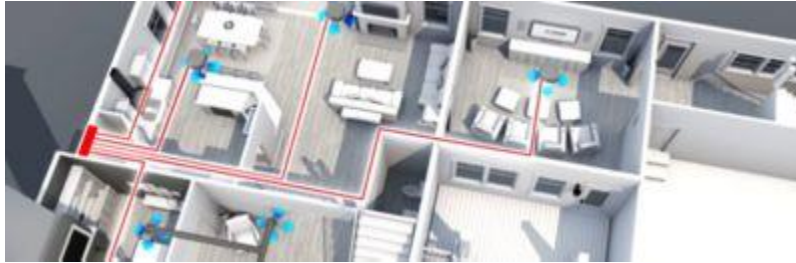
A ductless mini split is versatile and can be installed in multiple types of working or home environments. It enables the homeowner or landlord to take control of the comfort and energy costs **by having the option to choose the temperature that you need in each room inside** your home or office and turn on or off the system that's not being used. In using a mini split system, you have the ability to place a climate control system that can be used in multiple configurations, but typically one of two basic installations:

Single-zone Cooling/Heating

Single zone systems are best for targeted heating and cooling. You can simply use it to cool or heat a room, especially where ductwork was never installed, is impossible to install, or otherwise is just not feasible. A garage, attic, small commercial building, basement, or any room addition separated from the main dwelling or commercial structure is a great candidate for single-zone.



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Multi-zone Cooling/Heating

A mini split system is also ideal for whole-home or office cooling/heating system. You would install a single outside compressor which is then connected to multiple air handlers that are installed in different rooms inside the house or offices inside a commercial space. A modern, high-efficiency mini split system is capable of handling up to eight indoor units. This would give the occupants individual temperature control in each area, completely under the control of that occupant, without disturbing anyone else on the system. Goodbye, too-hot-versus-too-cold arguments!



What Are The Benefits of a Ductless Mini Split AC System?

There are many advantages for a ductless mini split system that you do not see with other types of AC systems, including:

Multiple Comfort From One System

A mini split system is known as a reversible system, which means that it can cool or heat your home or office. Essentially, it acts as both an air conditioning system and as a heating system. This, along with the individual control of zones makes the mini-split system one of the most cost-effective and versatile climate control solutions. Although you can use a mini split as a secondary AC/Heating system, it's best used as a standalone system in order to achieve maximum efficiency and cost-effectiveness.

High Energy-efficiency, Huge Savings

You should ONLY consider a mini-split system that is Energy Star-rated, available with the highest SEER in the market, and designed with the best energy-saving components and functionality. Such a system will typically consume far less energy for the same amount of cooling/heating than traditional HVAC systems.

No Matter What The Weather Or Season, Your Comfort Is Assured

You will want a mini split system that is inverter-driven, which makes a tremendous difference in their efficiency in cooling/heating your home or office. Weather or season doesn't matter, because the mini split system simply switches back and forth from AC to Heating, providing consistent year-round comfort and energy-efficiency.

Advanced Technology, Superior Operation

Your mini split should provide you with exceptional capabilities and a wide range of highly advanced features and options. Look for a powerful compressor with highly



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intuitive controls. This provides maximum comfort along with superior performance and superior energy efficiency.

Cost-Effective Installation, Application, and Operation

Because they are modern system using modern design and technology, mini split systems are significantly easier to install and maintain. Because they don't use bulky, heavy, difficult to install and costly ductwork, they can be installed virtually anywhere. This provides a cost-effective, versatile, flexible alternative to an older technology. If you have have a unique or complex situation or specific cooling or heating needs, you can easily tackle them with a mini split system – unlike a traditional system.



Handle Extreme Weather Situations – Hot & Cold

The more highly advanced mini splits can handle extreme weather conditions. Freezing cold or scorching heat can be dealt with by using a mini splits system designed to handle extremes of temperature. In fact, a mini split installation can actually have far superior performance to an older technology, providing you with warm comfort even in an extremely cold climate.

Smart Operation, Personalized Comfort

Ductless mini split units come with an array of smart operational functionalities and control options that enable you to personalize your whole comfort experience. With mini splits, you will have a range of options—whether you want to control the fan speed, adjust the airflow, time the unit’s operation, or set the room temperature, among many other things.

High-Quality Air Filters And Healthier Indoor Air

Modern mini splits have built-in advanced air filters. Through multi-stage filtration, mini splits can deodorize while also eliminating at least 99.9% of harmful airborne particulates and other contaminants inside your home or commercial space. High-quality filters also contribute to the overall reliability of the system by keeping out contaminants that can clog and damage the internal components. Most mini split air filters are easy to access, remove, clean, or replace by the owner. They can also last for many years, unlike conventional filters which have to be replaced yearly or quarterly if not more often.

Control In The Palm Of Your Hand – You Can Phone It In!

The more advanced mini split models have Wi-Fi-enabled controls. This means that you can connect these units over the internet and control the whole system directly from your smartphone or a mobile device using a mobile app. This allows to turn the system on and off, raise or lower the temperature, or even view diagnostics over your phone using the app.



Less Noise = More Comfort

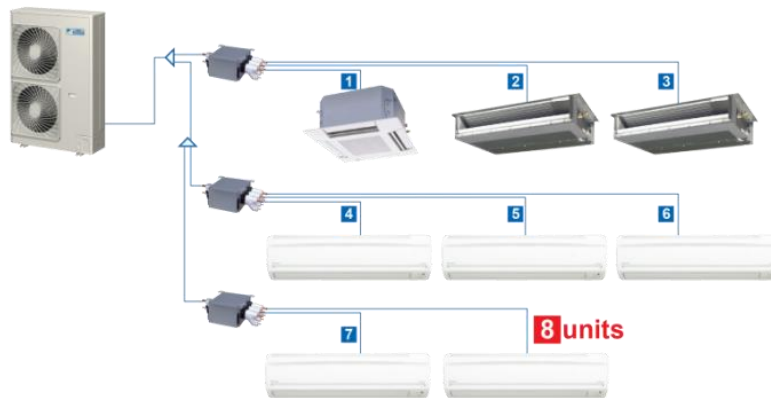
Adding significantly to your comfort level, mini split systems normally operate at very low sound levels. Most indoor units run so quietly - barely more than of a whisper - that you may have to look at the controls to determine that it's in operational mode.

Modern Design Makes For A Secure System

Your mini split system will be a reliable climate control system that is robustly designed, engineered, and built. Mini splits are also designed to be highly secure systems that can be set to automatically conduct self-diagnosis and operation. A highly advanced mini split installation can automatically begin to diagnose itself, do a system check for errors, and/or lock itself if it senses unauthorized access to the system.

Environmentally-friendly, Low Household Carbon Footprint

Using a non-ozone-depleting refrigerant and consisting of recyclable components, mini splits are proving to be far more environmentally friendly than other, older technologies.



Low-profile, Unobtrusive Design

The indoor unit of a typical mini split system gives a simple, compact profile. It takes up a minimum of space and will fit unobtrusively into home or office decor regardless of the style.

Ask About Our Best Warranty Offers & Incentives!

Our mini split models are available with some of the best warranties in the industry. The high-efficiency of these system can also makes you eligible for various rebates and tax credits.

Need More Information – Or Ready For A Free Analysis & Estimate?

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