

Haier

Haier Ductless Air / 2016



The #1 brand of major appliances in the world, Haier employs the talents of more than 60,000 people across 100 countries. A leading supplier of split ductless HVAC systems in Asia, Europe and North America, we help contractors complete the projects that professional reputations are built on.

The Haier Ductless Experience

Surprise and Delight Your Customers

Brought up in central air environments, most U.S. consumers have grown to accept the limitations of these systems. But once your customers discover what's possible with ductless, they'll never want to go back.

Contractors in Asia and Europe have known for decades that ductless systems are far less expensive to install and deliver a level of comfort and energy savings that central air systems simply can't match.

But Haier ductless systems go even further. With motors controlled by super efficient 180° sine wave DC inverters, they can deliver an unprecedented level of efficiency and quiet performance.

HVAC Systems Compared

Benefits	Haier Ductless (A-PAM DC inverter)	Central Air (Extending Ductwork)
Energy Savings	High	Medium-to-Low
Heat Loss Through Ducts	0%	30%
Noise	21–35 dBA	65+ dBA
Multi-Zone Control	Yes	No
Turbo Heating/Cooling	Yes	No

Efficiency

Enjoy ENERGY STAR™ rebates, lower utility bills and a smaller carbon footprint.

Performance

Heat and cool spaces in a fraction of the time – even in the depths of winter.

Air Quality

Take a deep breath of crisp, quadruple-filtered air that moves like a natural breeze.

Automation

Control indoor comfort to a luxurious degree of precision with Haier's smart functions.

Key Features + Benefits

Discover all the benefits that Haier ductless air handling systems have to offer.

Efficiency

Energy-Saving Technologies

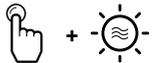
Get luxury comfort without sacrificing efficiency. From DC inverters to six-step fans to improved heat-exchange materials, every part is constantly working to minimize inefficiencies.



Performance

Faster Heating and Cooling

Find the solutions you've always wanted. *Turbo Mode* briefly maxes out system speeds to heat or cool in half the time. And, with *Warm Start Mode*, the fan won't blow cold air at the start of the heating phase.



Temperature Stability

Keep room temperatures closer to the desired level at all times. *Cool/Heat Auto Changeover* quickly reins in temperature changes while *Low Ambient Cooling* (14°F) and *Heating* (5°F) *Limits* deliver great performance even in extreme weather.



Temperature Precision

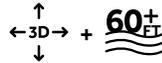
Set and maintain room air temperature with twice the precision of other leading ductless systems.



Air Quality

Natural Breeze Effect

Capture the sensation of natural wind. The *3D Airflow* feature simulates both horizontal and vertical movement, carried throughout the space by *Long Distance Airflow* (60+ ft.) capability.



Allergens and Odor Control

Safely reduce dust, pollen, mites, viruses, bacteria and odor-causing gases in the air with four easy-to-clean filters.



22 dBa Quiet Mode

Reduce the sound produced by the indoor unit to the softness of a whisper – literally.



Automation

LED Screen-Wired Controllers

Set weekly programs, check detailed system settings and even control up to 16 indoor units from a single tablet-like interface.



Sleep Mode

Adjust bedroom temperature throughout the sleep cycle, making sure it's never too hot or too cold – all while saving significant energy.



Auto Restart

Save pre-programmed schedules or settings in the event of a sudden power outage, automatically restoring them.



Technology

Customers look to you for providing the best HVAC solutions at the best value. Which is why we're committed to developing product technologies that raise the bar in new and exciting ways.

Haier Air Conditioning R&D Center

Completed in 2013, our 222,000 sq. ft. facility features: testing centers for parts, safety, user comfort and reliability; labs for studying noise reduction, heat efficiency and ergonomics; weather simulators for snow, rain and UV sunlight; and the world's tallest refrigerant line-testing structure.

180° Sine Wave DC Inverter

Using a new pulse amplitude modulation technology ("A-PAM"), the 180° sine wave DC inverter allows for greater stability at low frequencies and greater power at high frequencies – all while improving cooling efficiency over existing systems.

Twin Brushless DC Rotary Compressor

The two-cylinder design has a larger capacity and gives better balance than a single rotary design – reducing vibration by 80% while producing uniform torque for greater efficiency.

Inner-Grooved Copper Tubing

The inside surface of Haier copper tubing is grooved with inner slots to enlarge the contact surface area – increasing heat efficiency exchange by 30-50%.

Blue Fin Coating

On indoor units, this coating improves the efficiency of the heat exchanger and allows condensation to flow more smoothly – cleaning out dust in the process. On outdoor units, Blue Fin coating on the fan blade helps protect the parts from corrosion.

Fan Blade and Blower Design

For indoor units, we lengthened the cross-flow fan and enlarged inlet/outlet openings to increase air volume – allowing us to create airflow strong enough to travel 60 feet. On our outdoor units, the improved blade design allows them to run at lower ambient heating and cooling temperatures.

Wind-Baffle-Free 0°F Cooling

Using a FlexFit 12,000 BTU or 18,000 BTU outdoor unit in a single-zone configuration, you can efficiently cool in ambient temperatures down to 0°F – no wind baffle necessary.

Single-Zone Systems

Consisting of a single indoor unit paired with a single, dedicated outdoor unit, Haier single-zone ductless systems can provide the perfect solution to a whole spectrum of residential and light commercial HVAC projects.

Arctic Series

With a standard inverter technology heat pump, homeowners can effectively reduce their electric bill and maintain an ideal comfort level. With the integration of Haier Heat Plus technology, the Arctic Series provides an exceptional experience for year-round comfort. The system is capable of providing 100% rated heating capacity at 5°F and toasty warm air at -15°F.

Available Capacities

9,000 BTU, 12,000 BTU, and 18,000 BTU



Novel Series

The perfect balance of efficiency, performance and value, our Novel Series systems offer good efficiencies (up to 20 SEER) and an attractive amount of premium features, including *Warm Start* and *Quiet Mode*.

Available Capacities

9,000 BTU, 12,000 BTU, 18,000 BTU and 24,000 BTU



Advanced Series

Our Advanced Series systems offer the highest efficiencies (up to 23.5 SEER and 12.0 HSPF), exceptionally strong heating for all BTU sizes and ultra-quiet operation (down to a whispering 22 dBa).

Available Capacities

9,000 BTU, 12,000 BTU, 18,000 BTU and 24,000 BTU

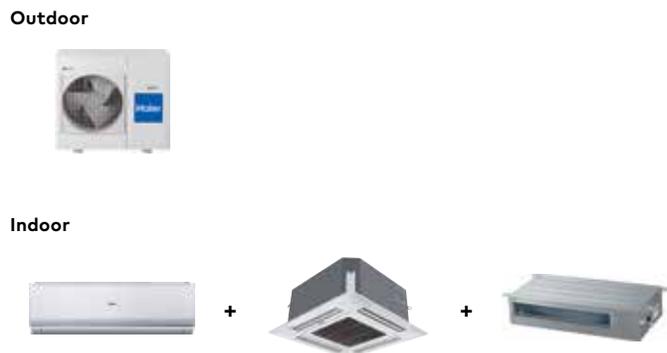


FlexFit Series

You can efficiently cool in ambient temperatures down to 0°F – no wind baffle necessary. Perfect for mechanical and server room. Three types of indoor units are available for various residential and light commercial applications.

Available Capacities

12,000 BTU and 18,000 BTU



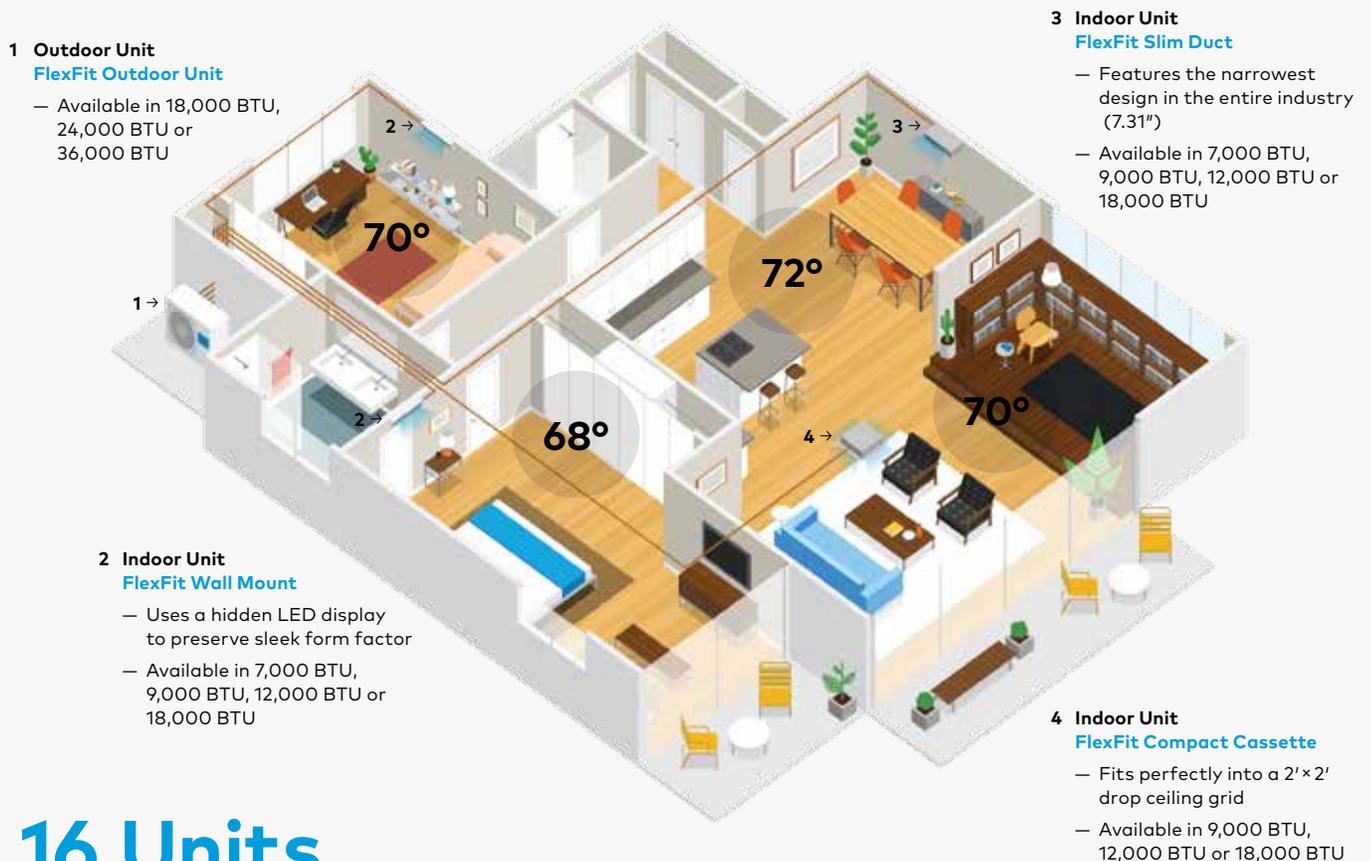
Multi-Zone Systems

Haier multi-zone ductless systems let you design ultra-customized HVAC solutions for virtually any project. Keep hot zones like restaurant kitchens and office server rooms cool while allowing customer-facing zones to stay comfortably mild. Save energy by heating or cooling only the bedrooms at night. All it takes is one multi-zone outdoor unit.

FlexFit Series

Haier FlexFit ductless systems allow you to mix and match the same indoor unit to both single-zone and multi-zone outdoor units, effectively reducing the time and cost of inventory management. Each of our three indoor unit

styles (wall mount, slim duct, compact cassette) has its own special features and is available in three or four different BTU ratings – allowing for more than 1,000 possible indoor-outdoor combinations.



16 Units, 1,000+ Combinations

Specifications

Whether single or multi-zone, Haier ductless systems offer excellent heating and cooling efficiency for any climate in the United States.

Single-Zone Systems	9,000 BTU	12,000 BTU	18,000 BTU	24,000 BTU
Arctic				
Cooling Efficiency	28 SEER	25 SEER	20 SEER	
Ambient Cooling Range	14°F – 115°F	14°F – 115°F	14°F – 115°F	
Heating Efficiency	13 HSPF	12 HSPF	10 HSPF	
Ambient Heating Range	-15°F – 75°F	-15°F – 75°F	-15°F – 75°F	
Advanced				
Cooling Efficiency	23.5 SEER	23 SEER	21 SEER	20 SEER
Ambient Cooling Range	14°F – 115°F	14°F – 115°F	14°F – 115°F	14°F – 115°F
Heating Efficiency	12 HSPF	11 HSPF	11 HSPF	10 HSPF
Ambient Heating Range	5°F – 75°F	5°F – 75°F	5°F – 75°F	5°F – 75°F
FlexFit/Wall Mount*				
Cooling Efficiency		18 SEER	18 SEER	
Ambient Cooling Range		0°F – 115°F	0°F – 115°F	
Heating Efficiency		9.5 HSPF	9 HSPF	
Ambient Heating Range		5°F – 75°F	5°F – 75°F	
FlexFit/Slim Duct*				
Cooling Efficiency		15 SEER	15 SEER	
Ambient Cooling Range		14°F – 115°F	14°F – 115°F	
Heating Efficiency		8.2 HSPF	8.2 HSPF	
Ambient Heating Range		5°F – 75°F	5°F – 75°F	
FlexFit/Compact Cassette*				
Cooling Efficiency		15 SEER	15 SEER	
Ambient Cooling Range		14°F – 115°F	14°F – 115°F	
Heating Efficiency		8.2 HSPF	8.2 HSPF	
Ambient Heating Range		5°F – 75°F	5°F – 75°F	
Novel				
Cooling Efficiency	18 SEER	20 SEER	18 SEER	17 SEER
Ambient Cooling Range	41°F – 115°F	41°F – 115°F	41°F – 115°F	41°F – 115°F
Heating Efficiency	8.5 HSPF	10 HSPF	8.5 HSPF	8.5 HSPF
Ambient Heating Range	5°F – 75°F	5°F – 75°F	5°F – 75°F	5°F – 75°F

Multi-Zone Systems	18,000 BTU	24,000 BTU	36,000 BTU
FlexFit			
Cooling Efficiency	Up to 16 SEER	Up to 18 SEER	Up to 18 SEER
Ambient Cooling Range	14°F – 115°F	14°F – 115°F	14°F – 115°F
Heating Efficiency	Up to 8.6 HSPF	Up to 9.5 HSPF	Up to 9 HSPF
Ambient Heating Range	5°F – 75°F	5°F – 75°F	5°F – 75°F

Key

115V 230V

*Assumes single indoor unit's BTUs equals outdoor unit's BTUs.

Series Comparison

Find the perfect balance of luxury features, energy savings and value for any construction or renovation project.

Feature	Arctic	Advanced	FlexFit (Single-Zone)	FlexFit (Multi-Zone)	Novel
Energy Star/Most Efficient	●	●			●
180° Sine Wave DC Inverter		●	●	●	●
Two-Way Piping Drain	●	●	● ^{WM}	● ^{WM}	●
Built-in Drain Pump			●	●	
Blue Fin Coating	●	●	● ^{WM}	● ^{WM}	●
No Wind Baffle (0° F)			● ^{WM}		
60-ft. Air Supply	●	●	● ^{WM}	● ^{WM}	
3D Airflow	●	●	● ^{WM}	● ^{WM}	
1° Temperature Control	●	●	●	●	
Turbo Mode	●	●	●	●	
Cool/Heat Auto Changeover	●	●	●	●	
Auto Louver: Left/Right		●	● ^{WM}	● ^{WM}	
Auto Louver: Up/Down	●	●	● ^{WM, SD}	● ^{WM, SD}	●
Warm Start Mode	●	●	●	●	●
Quiet Mode	●	●	● ^{WM}	● ^{WM}	●
Self-Diagnosis	●	●	●	●	●
Heat Pump		●	●	●	●
Four-Layer Filter	●	●	●	●	●
Dry (Dehumidification)	●	●	●	●	●
Self-Cleaning Evaporator	●	●	●	●	●
Sleep Mode	●	●	●	●	●

All features not available on all models.

Key

WM: Standard for Wall Mount Unit only

WM, SD: Standard for Wall Mount Unit, optional for Slim Duct Unit

Applications

Haier ductless systems offer all of the energy savings and state-of-the-art air handling features that your most important projects demand.

Thanks to their wide range of capacities, features and indoor unit styles, Haier ductless systems can provide a perfectly tailored solution for many of the most popular residential and light commercial jobs.

- 1 Spot Cooling and Heating
- 2 Multi-Zone Cooling and Heating
- 3 Assisted Living Facility
- 4 Multi-Tenant Housing
- 5 Office Spaces
- 6 IT/Server Rooms



Your customers turn to you for great results. So offer them the performance and support of Haier.

Warranty

At Haier, we take pride in our work. Which is why we offer one of the best warranties in the industry for our Advanced Series and FlexFit Series: a 7-year warranty for compressors and a 5-year limited warranty on parts.

Training

We're with you every step of the way, from theory to application. Through the Haier HVAC Training Center, we teach distributors and contractors everything from service to installation to sales. For those who prefer to learn in the field, our Regional Training Program matches professionals with experienced trainers.

Support

You can always rely on Haier to guide you through warranty processing, parts ordering, product installation, technical documentation and more.

Rebates



With their high SEER and EER ratings, Haier ductless systems could earn your customers very attractive rebates.

Learn more by visiting:

ENERGY STAR
energystar.gov

**Database of State Incentives for
Renewables & Efficiency**
dsireusa.org

Haier America 1800 Valley Road, Wayne, NJ 07470 haierductless.com

