

KLIMAIRE

Mark of Superior Quality

ksi

Environmentally Friendly

SERIES

Experience True Comfort



DC INVERTER TECHNOLOGY

AHRI CERTIFIED



What Klimaire brings you ...

We have been in the Ductless Mini-Split business for over 25 years and Klimaire maintains the highest quality and reliability with ISO 9001 and ISO 14001 standards in our manufacturing facilities. Our products have proven their endurance and resiliency over time, operating in 70 different countries. All products are ETL certified and AHRI registered.

Klimaire products exceed industry standards for energy efficiency and employs innovative technology to achieve the highest customer satisfaction. Since our goal is to achieve maximum customer satisfaction, we continuously seek to achieve higher performance levels in the design phase for all future units.

Ductless Mini-Split systems are one of the fastest growing products in the US and popularity is rapidly increasing. They allow air conditioning and heating systems to be added quickly, economically and conveniently, often for some applications where installing comfort systems didn't seem possible or practical.

Flexibility is the main driver of their popularity.

Klimaire ductless systems are simple, reliable, easy to install, and extremely affordable. Klimaire slim single zone and multi zone ductless systems offer built-in solution with duct free technology benefits.

These systems are integrated with innovative inverter technology providing individual comfort and control. With our KSIO series.

With KSIO Series Klimaire provides up to 24 SEER efficiency and economy with two simple components - a Stylish and low profile wall mount indoor unit matching with an outdoor unit.

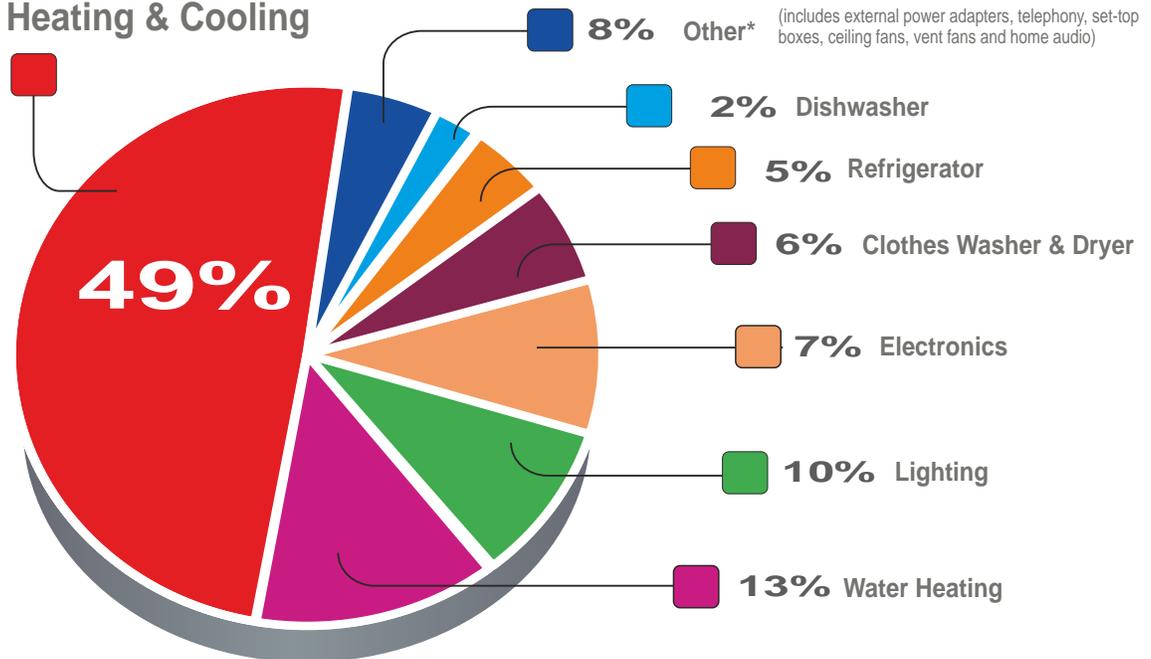


How much do you spend for heating & cooling your home?

The US Department of Energy (DOE) says that as much as half of the energy used in your home goes to heating and cooling. So making smart decisions about your home's heating, ventilating, and air conditioning (HVAC) system can have a big effect on your utility bills and your comfort.



Heating & Cooling



Klimairste **Invertech** DC Inverter - driven ductless air conditioners and heat pumps can save you up to 33% in your power utility bill when compared with room air conditioners or standard efficiency 10 SEER ductless systems. Even up to 30% energy consumption savings can be achieved when ductless Invertech units are practical to install and preferred over traditional ducted central units by eliminating duct losses. Total savings can reach up to 49% when the two options are combined.

DC INVERTER TECHNOLOGY

WHAT IS KLIMAIRE DC INVERTER ?

Klimaïre DC Inverter Air Conditioners are the ultimate cooling and heating technology of the HVAC field. They are called "DC inverter" because the alternative current (AC) is converted to Direct Current (DC) then, direct current inverted back to Alternative current with desired frequency. As known, the current supplied through the wall outlet has fixed frequency which is 60 Hertz. Different frequencies supplied to the compressor will result different running speeds of the compressor.

Klimaïre Inverter control systems use Pulse Amplitude Modulation (PAM) that is the most advanced and energy efficient method of inverting the current.

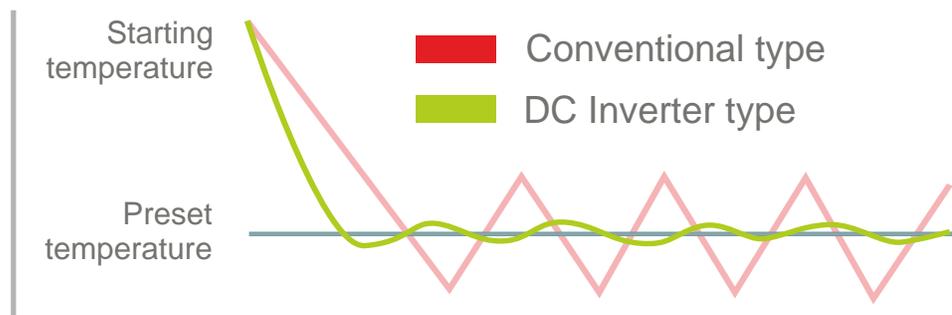
DC Inverter air conditioners bear special compressors that their speed could be changed by increasing or decreasing the frequency of the supplied power.

Therefore, unlike conventional split Air Conditioners/Heat Pumps which cycle between on and off repeatedly, the DC Inverter control system will monitor the room temperature and adjust the compressor speed automatically.

Conventional compressors turn on and off to maintain the room temperature at desired level. This will result compressor to draw tremendous energy each time it starts up. This will also reduce the life-span of the compressor and other components that are turning on and off.

Once a conventional system is running, it runs at its maximum speed, consuming the maximum amount of energy in order to produce the maximum of cooling or heating to maintain the desired temperature. The system will then cycle between on and off in an effort to maintain this temperature.

When a DC Inverter compressor initially starts up, it runs with a higher speed to bring the room temperature to desired level rapidly. Once the set temperature is reached, it slows down and adjust its capacity just to counter the heat loss or heat gain of the building. By this way it will maintain a constant temperature.



KSIO Series provide higher energy savings up to 40% compared to lower SEER inverter Heat Pumps and Air Conditioners

You Are Always In Saving Mode

You'll save energy everytime you use a Klimage Ductless System.

Air ducts from a central forced air system can lose energy, with air leakage specially if the ducts run through unconditioned areas like attics or basements.

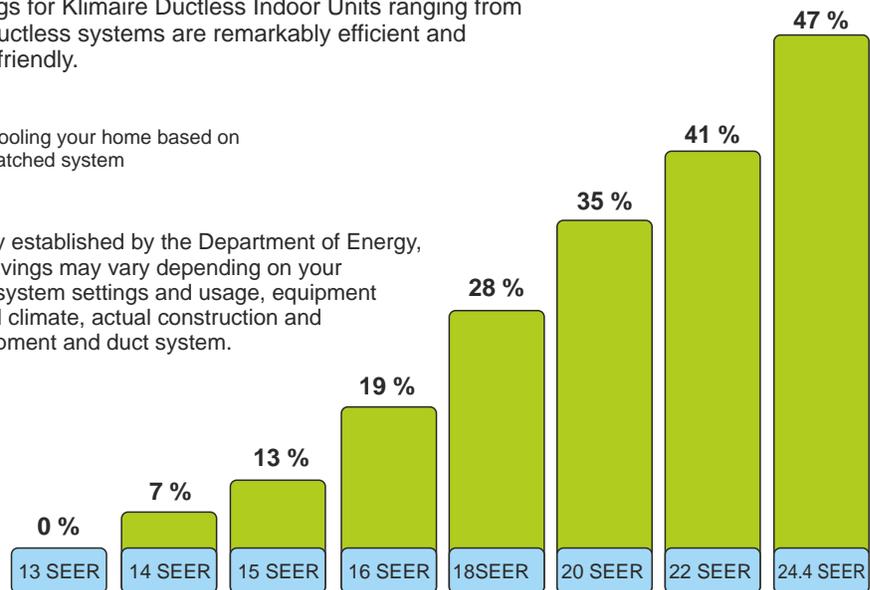
Since Klimage Ductless Systems have no ducts, they avoid that energy loss completely, reducing your impact on the environment and lowering your energy costs.

System efficiency is measured in SEER, with stands for Seasonal Energy Efficiency Ratio. Similar to miles per gallon in a car, SEER measures te overall efficiency of a heating and cooling system on a seasonal basis. The higher the SEER, the greater the system's energy efficiency.

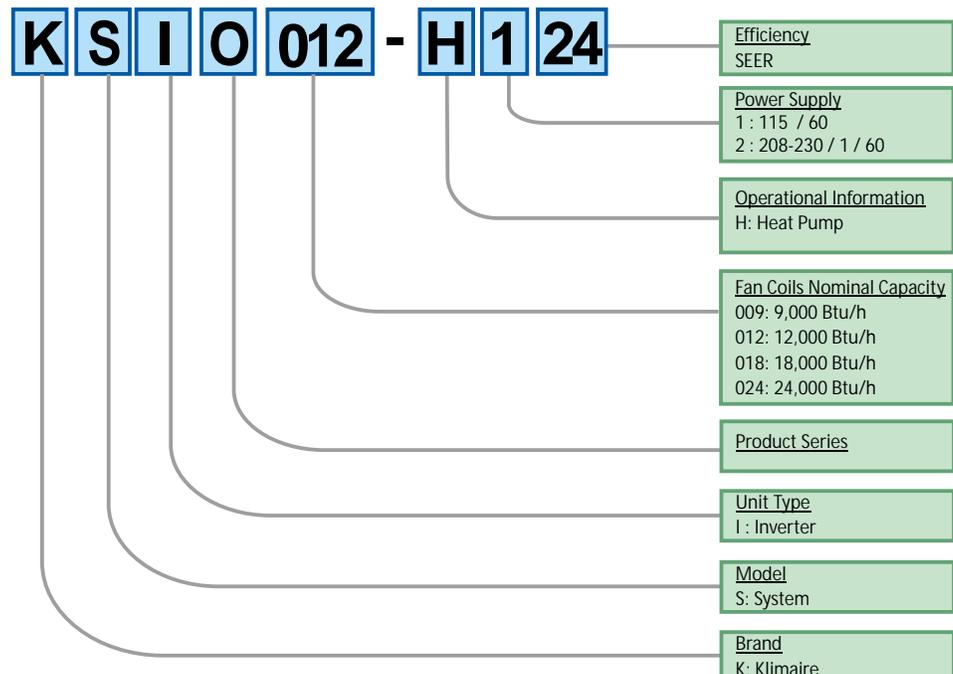
With SEER ratings for Klimage Ductless Indoor Units ranging from 14 to 24.4, our ductless systems are remarkably efficient and environmentally friendly.

Annual savings for cooling your home based on the efficiency of a matched system

Minimum efficiency established by the Department of Energy, Potential energy savings may vary depending on your personal lifestyle, system settings and usage, equipment maintenance, local climate, actual construction and installation of equipment and duct system.



KSID - PRODUCT CODE:



Ductless Mini-Split

Experience true individual comfort. Ductless Mini-Split systems are the perfect solution to a variety of installation challenges. Ductless Mini-Split units eliminate the use of ductwork, allowing installers the ability to place these units in locations that were previously considered impractical or impossible due to additional ducting and cost associated with installing a regular unit. Ductless Mini-Splits consist of two parts, an outdoor unit and an indoor unit, similar to regular split units, but much smaller in size. The outdoor and indoor units are connected to each other by refrigerant and electrical lines. They run together with a condensate drain line through a small hole in an exterior wall, generally 3 inch in diameter or less. In addition to eliminating the need for ducting, another great advantage of Ductless Mini-Split systems is true zone control. The indoor fan coil unit is dedicated to the room being conditioned, allowing a temperature and humidity level to be kept in a specific room, separate from the rest of the house or building.

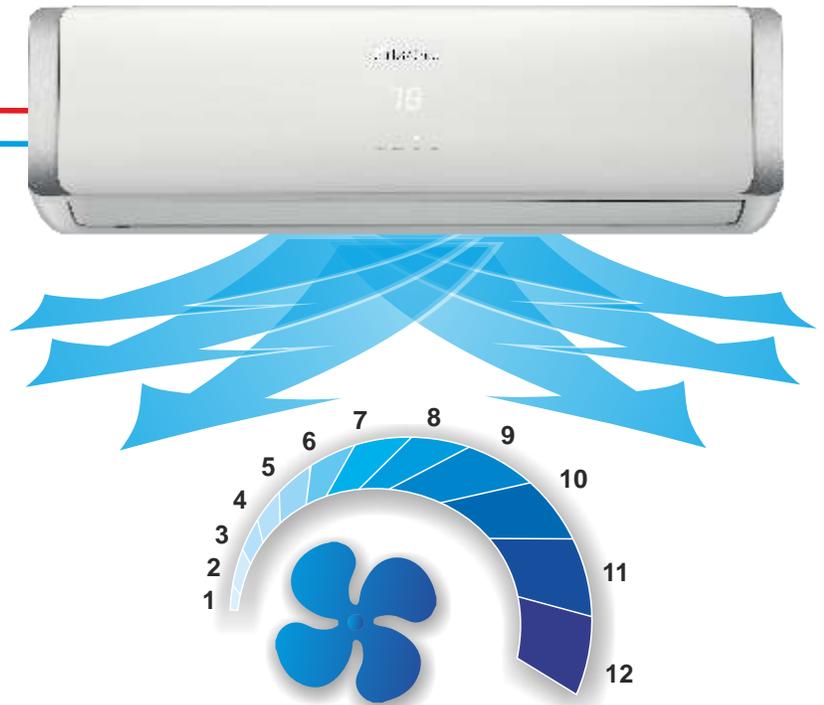


OUTDOOR



INDOOR UNIT

Powerful, precise, quiet and efficient air flow



Powerful, precise and efficient air flow

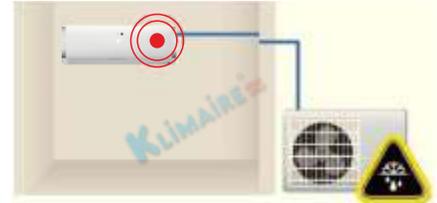
With 12 grades indoor fan speeds, Klimaire air conditioners allow you to adjust the airflow precisely to the setting that gives you the greatest comfort together with louver settings. Alternatively, use the swing feature to distribute air evenly throughout the room. Choose from a gentle airflow right up to the full cooling or heating of turbo power mode, which provides maximum comfort instantly.



Features & Benefits

1 Refrigerant Leakage Detection

You can know when your unit is performing or not, it monitors and gives you the ability to check and be alerted about the performance of your unit; preventing damages to the compressor which is the most vital part of the system.



2 Convenient for installation

Multi-refrigerant outlet pipe method: left/right/rear, more flexible for installation.



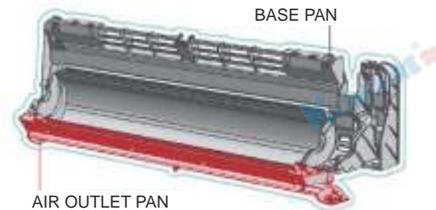
3 Easy maintenance

Easy maintenance has been realized as the front panel can be removed for easy access to washable filters



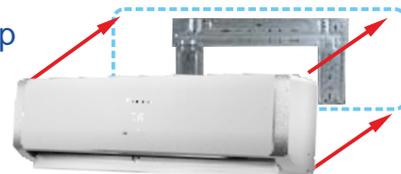
4 Integral Design

The base pan and air outlet pan assembly adopt an integral design for improved and silent air flow, as low as 29 dB



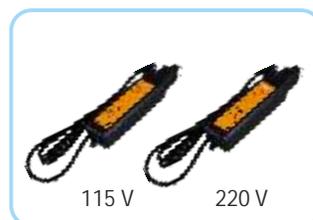
5 Easy and quick mounting setup

The convenient mounting plate allows the fan coil to be quickly installed.



6 Optional Installation Accessories

These accessories make installation easier



Condensate Drain Mini-Pumps



Outdoor unit wall brackets



Installation Kits 16, 25 and 40 ft.

Applications are everywhere...

Ductless Mini-splits have flexibility to fit virtually any application!

Ductless mini-split systems are a real cost efficient, flexible, quiet and attractive solution to provide a smart, peaceful alternative to both window and central air conditioners, for locations where ducting is not available, or feasible in residential, offices, or commercial buildings, new or existing, and additions.

- Homes utilizes hydronic heat
- Remote Utility transfer stations
- Residential additions such as a Florida room, sun room, bed room or garage conversions
- Restaurants
- Barber shops
- Computer rooms (different temperature/humidity control is required)
- Historic homes
- Vacation homes or cabins
- ATMs and photo studios
- Remote offices (such as inside a warehouse factory)
- Class rooms
- Indoor nurseries
- Shopping malls
- Nursing homes, hospitals & church sanctuaries
- Arena sky boxes

Indoor Climate Changer

Indoor nurseries & plant growers can easily achieve the desired temperature and control humidity levels in different zones.



Auxiliary Cooling

When additional cooling is on demand, ductless mini split systems can be added quickly, conveniently and economically.



EZ Supplemental Capacity

In most cases it is impractical and inconvenient to utilize existing central system and duct work for your home addition projects. KlimaIRE Inverter units can be easily added as supplemental cooling and heating capacity for your home additions. Homeowners enjoy zone comfort control eliminating messy duct work installation, that may result in inefficient air distribution.



Individual Comfort and Temperature Control

Customize your own true zone cooling & heating to achieve more precise individual comfort day and night in your home or business. KlimaIRE units zoning capability allows you to set each zone with different temperature settings as desired. You can even turn off the units in non-occupied rooms for additional energy savings, while keeping them at a higher temperature setting in cooling to control humidity levels – increasing personal comfort.



Smart Heating and Cooling

It is highly recommendable to replace your inefficient old room air conditioner with quieter, high efficiency ductless mini split System

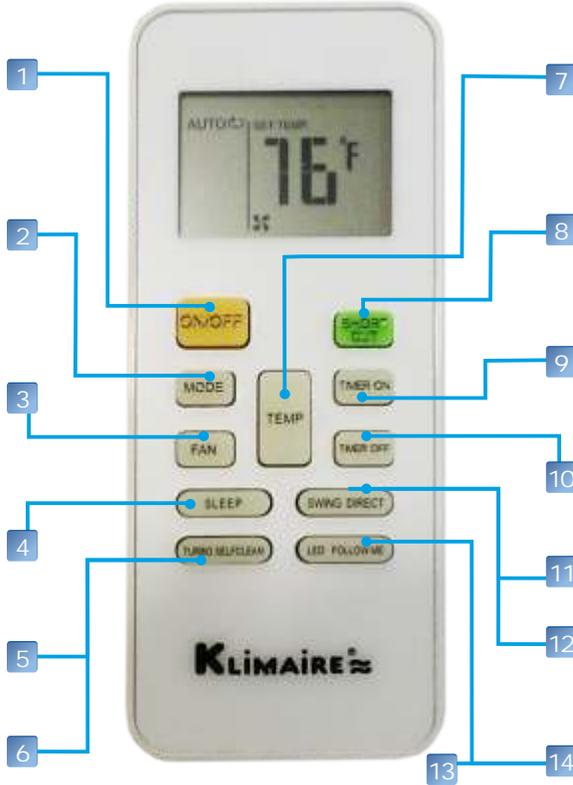


Spot Heating and Cooling

Utilize ductless efficiency for new construction projects where ductless system make more sense than conventional ducted system

Total Command

The new easy-to-use Klimaite-Carrier remote control is carefully designed as the rest of the system to ensure perfect control of all the functions. Frequently used buttons are placed at the top, while feature buttons are laid out in user-friendly zones. The One Touch My Comfort features customized temperature and airflow settings, which will deliver you ultimate comfort with one simple push of the button. When you activate the Comfort Sleep feature, your air-conditioning system will compensate for naturally lower night air temperatures so you can sleep in complete comfort.



1 ON/OFF Button
Operation starts when this button is pressed and stops when this button is pressed again.

2 MODE Button
Each time the button is pressed, the operation mode is selected in a sequence of following:



NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by 0 the cooling only appliance.

3 FAN Button
Used to select the fan speed in four steps: r



4 SLEEP Button
Active/Disable sleep function. It can maintain the most comfortable temperature and save energy. This function is available on COOL, HEAT or AUTO mode only.
NOTE: While the unit is running under SLEEP mode, it would be cancelled if MODE, FAN SPEED or ON/OFF button is pressed.

5 TURBO Button
Active/Disable Turbo function. Turbo function enables the unit to reach the preset temperature at cooling or heating operation in the shortest time(if the indoor unit does not support this function, there is no corresponding operation happened when pressing this button.)

6 SELF CLEAN Button
Active/Disable Self Clean function. Under self clean mode, the air conditioner will automatically clean and dry the evaporator and keep it as fresh for the next operation.

7 UP Button (^)
Push this button to increase the indoor temperature setting in 1°F increments to 86°F.
DOWN Button (v)
Push this button to decrease the indoor temperature setting in 1°F increments to 62°F.
NOTE: Press and hold and buttons together for 3 seconds will alternate the temperature display between the °C & °F scale.

8 SHORTCUT Button
Used to restore the current settings or resume previous settings. On the first time connecting to the power, if push the SHORTCUT button, the unit will operate on AUTO mode, 80°F, and fan, speed is Auto.
• Push this button when remote controller is on, the system will automatically revert back to the previous settings including operating mode, setting temperature, fan speed level and sleep feature (if activated). And transmit the signals .to the unit.
• If push this button when remote controller is off, the system will only resume the previous settings and will not transmit the signals to the unit. And the sleep feature is disable.
• If pushing more than 2 seconds, the system will automatically restore the current operation settings including operating mode, setting temperature, fan speed level and sleep feature(if activated).

9 TIMER ON
Button Press this button to initiate the auto-on time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-on time to 0.0.

10 TIMER OFF Button
Press this button to initiate the auto-off time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-off time to 0.0

11 DIRECT Button
Used to change the louver movement and set 0 the desired up/down air flow direction. The louver changes 6° in angle for each press.

12 SWING Button
Used to stop or start horizontal louver auto swing feature.

13 FOLLOW ME Button
Push this button to initiate the Follow Me feature, the remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the Follow Me button again. The air conditioner will cancel the Follow Me feature automatically if it does not receive the signal during any 7 minutes interval.

14 LED Button
Disable/Active indoor screen Display. When pushing the button, the indoor screen display is cleared, press it again to light the display.

Additional Features



Up to 24 SEER efficiency



Refrigerant leakage detection (single zone)



Follow me function



Indoor unit quick hook design



Auto re-start



Turbo mode



Sleep mode



Anti-cold draft



DC inverter technology



Extended heating & cooling for low ambient conditions down to 5° F & dehumidification



Quiet operation, as low as 29 d(B) for selected models



4 in 1 – Cooling, heating, dehumidification & fan



Louver position memory



Two way draining connection - 18K & 24K



Low ambient cooling except 24k

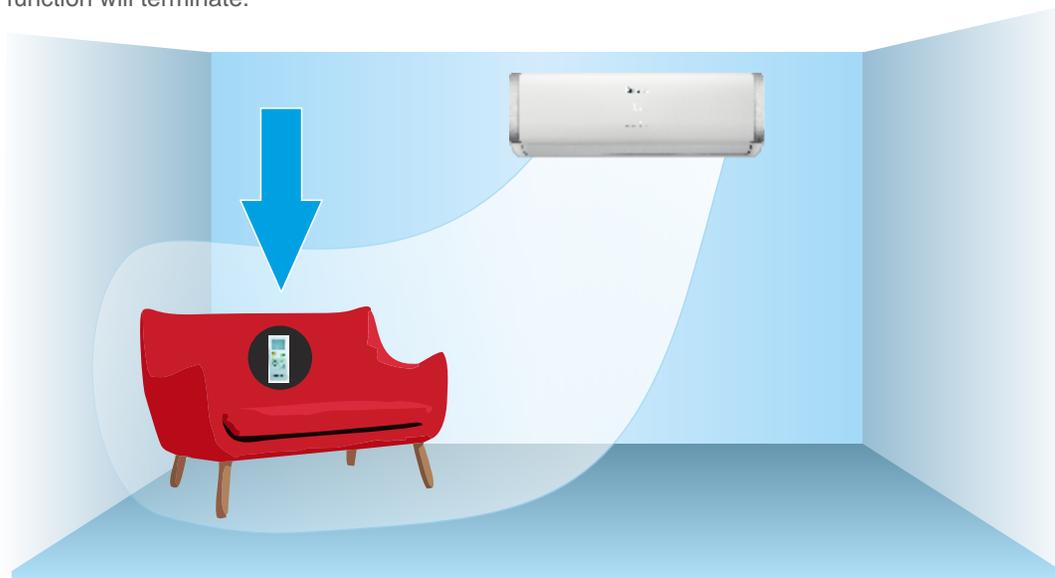


Wired remote wall thermostat control capability

Follow me function

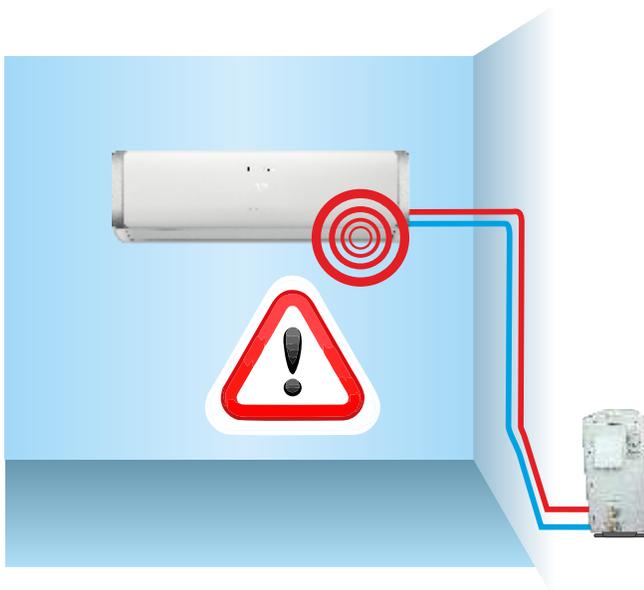
The room temperature sensor built in the remote control is activated and replaces the one in the outdoor unit, and the air conditioner will regulate the room temperature based on the temperature around the remote control, just as if the air conditioner is following the user.

Pressing the "Follow me" button on the remote control activates this function, then the remote control will send to the PCB a signal every three minutes. If the PCB doesn't receive a signal either for 7 minutes or by pressing the "Follow me" button again, the function will terminate.



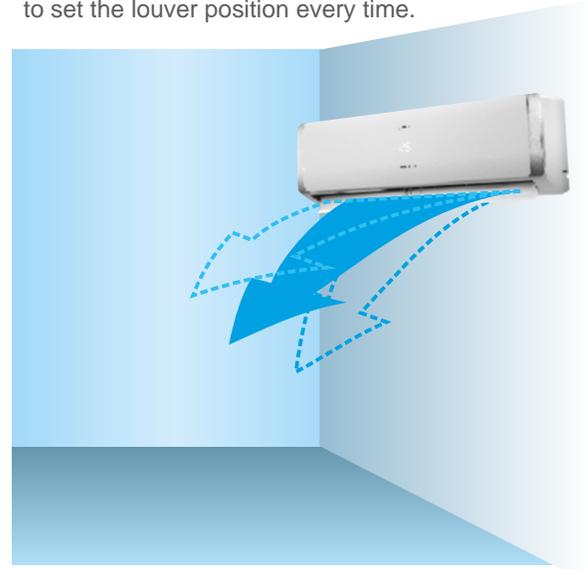
Leakage detection

When the outdoor unit detects a refrigerant leakage condition the indoor unit will sound an alarm. This new technology protects much better the compressor.

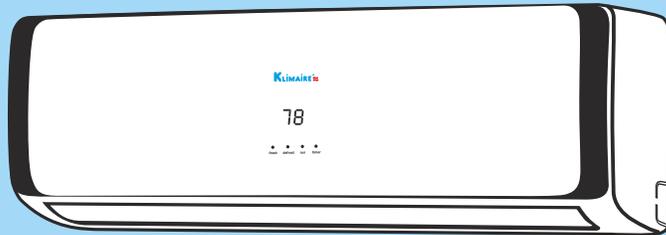


Louver position memory function

After the user finds the best angle for the louver, when the unit restarts again the angle of the horizontal louver will automatically move to the same position set last time. It is very convenient because it is not necessary to set the louver position every time.



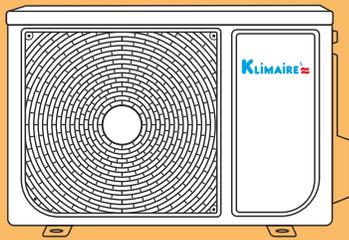
AIR HANDLING UNIT



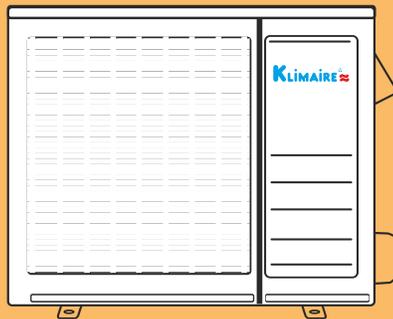
- Elegant and attractive modern design
- Super silent air-flow
- Louver position memory function
- Refrigerant leakage detection
- Temperature compensation
- Follow me function
- Turbo mode
- Self-cleaning
- Sleep mode

CONDENSING UNIT

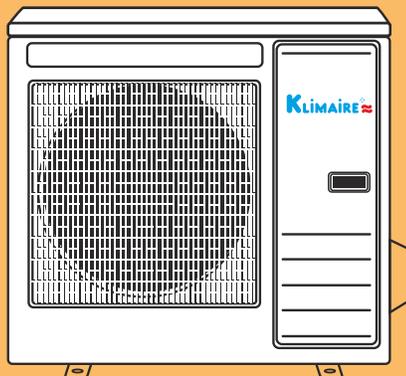
9 - 12 KBTU



18 KBTU



24 KBTU



- Variable capacity with inverter technology to maximize comfort and minimize energy cost.
- True zone temperature control to optimize personal comfort.
- More efficient and energy saving by zone cooling and heating.
- Consistent comfort with evenly distributed air flow in heating or cooling modes with micro-processor temperature control.
- Direct cooling or heating without extensive duct losses for winter and summer.
- Excellent humidity control with dehumidification/dry mode.
- All-in-one heating, cooling, dehumidification, fan, turbo modes.
- Easy installation; simple, quiet & reliable operation; attractive design.
- Solves the thermal shock problem that occurs with conventional air conditioners at bed time.

Klimaite Model Number		KSIO009-H124	KSIO012-H123	KSIO018-H221	KSIO024-H219	
Power supply		Ph-V-Hz	115V~ 60Hz / 1 ph	115V~ 60Hz / 1 ph	208-230V~ 60Hz / 1ph	208-230V~ 60Hz / 1ph
Energy Star			Yes	Yes	Yes	Yes
Cooling Capacity (Rated)		Btu/h	9000	12000	18000	26000
Cooling Capacity (Min-Max)		Btu/h	3510 - 11430	4800 - 15240	5940 - 23520	10660 - 30940
Watts (cooling)		W	600	890	1.400	1.840
Rated current		A	5,2	7,7	6,5	8,4
Nominal Capacity	EER	Btu/W	15	13,5	12,5	12,5
	SEER	Btu/W	24.4	23	21	19
	Heating Capacity (Rated)	Btu/h	10.000	12.000	18.000	25.400
	Heating Capacity (Min-Max)	Btu/h	5000 - 14400	4800 - 15840	5760 - 23940	11430 - 30730
Watts (heating)		W	800	1.000	1.440	2.010
Rated current		A	10	10	9	9
HSPF		Btu/h/W	10	10	9,5	9
Minimum Circuit Ampacity (MCA)		A	10	11	13	15
Max. Overcurrent Protection		A	15	15	20	25
Moisture Removal		pint/hr	1,9	2,2	2,9	4,3
Model			ASM98D1UFZA	ASM108D1UFZA	DA130M1C-31FZ	DA250S2C-30MT
Type			ROTARY	ROTARY	ROTARY	Twin-rotary
Brand			GMCC	GMCC	GMCC	GMCC
Compressor	Capacity	Btu/h	10.048	11.178	13.443	26.289
	Input	W	740	840	1005	2120
	Rated current (RLA)	A	7.7	8.5	6.8	8.9
	Thermal protector position		INTERNAL	---	INTERNAL	----
Refrigerant oil / charge		cu. in.	ESTER OIL VG74 / 23	ESTER OIL VG74 / 23	ESTER OIL VG74 / 29	ESTER OIL VG74 / 50
Model			WZDK20-38M	WZDK20-38M	WZDK58-38G	RPG50B
Indoor fan motor	Brand		Shibaura	Shibaura	Shibaura	Welling
	Input	W	20	20	58	102
	RLA	A	0,19	0,19	0,13	0,36
	Speed (Hi/Mi/Lo)	r/min	1150 / 950 / 750	1150 / 950 / 750	1150 / 900 / 700	1250 / 1100 / 900
Indoor air flow (Hi/Mi/Lo)		cfm	425/350/280	425/350/280	710/560/440	850/770/620
Indoor noise level (Hi/Mi/Lo)		dB(A)	41/36/29	42/37/31	47/40/31	50/45/40
Dimension (W*D*H)		in	32.9x7.8x11.0	32.9x7.8x11.0	39.0x8.6x12.4	46.7x10.2x13.4
Indoor unit	Packing (W*D*H)	in	35.8x10.6x14.0	35.8x10.6x14.0	41.9x11.8x15.8	49.8x16.5x13.4
	Net/Gross weight	lb	19.2/24.7	19.2/24.7	26.5/30.9	40.8/50.7
	Model		WZDK40-38G-1	WZDK40-38G-1	WZDK50-38G	WZDK72-38G
Brand			Shibaura	Shibaura	Shibaura	Panasonic
Outdoor fan motor	Input	W	40(Output)	40(Output)	50(Output)	72(Output)
	RLA	A	0,16	0,16	0,3	0,55
	Speed	rpm	850	850	800	850
Outdoor air flow		cfm	1120	1180	1470	2060
Outdoor noise level		dB(A)	56	57	60	60
Dimension (W*D*H)		in	31.9x12.2x22.0	31.9x12.2x22.0	33.3x12.6x27.6	35.4x12.4x33.9
Outdoor unit	Packing (W*D*H)	in	36.6x15.8x24.2	36.6x15.8x24.2	38.0x15.6x29.7	41.1x15.6x36.0
	Net/Gross weight	lb	82.5/88.2	81.6/87.7	102.5/111.3	130.1/138.9
	Refrigerant type - Charge (up to 25 ft of Line Set)	oz	R410A/44.09	R410A/44.09	R410A/67.0	R410A/85.7
Additional charge per ft		oz	0,161	0,161	0,161	0,322
Design pressure		psig	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/ Gas side	in	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	3/8" - 5/8"
	Max. refrigerant pipe length ¹	ft	82	82	98	98
	Max. elevation difference ²	ft	33	33	66	66
Connection wiring		16AWG x 4 Stranded, unshielded				
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control
Low Ambient Operation (cooling/heating) ³		°F	5 ~ 122/5 ~ 86	5 ~ 122/5 ~ 86	5 ~ 122/5 ~ 86	5 ~ 122/5 ~ 86
Application area		sq.ft	300-400	450-550	700-1000	900-1600

Continued product improvement is our goal at Klimaite Products, Inc. Hence, specifications and data listed herein are subject to change without notice and without obligation on our part. Always comply with local, state, and national electrical codes.

- 1 - Minimum 10 ft line set recommended.
- 2 - Outdoor unit being elevated than the indoor unit oil trap should be installed every 17 ft to 23 ft (5 to 7 m)
- 3 - Factory installed only, not field option. Units may operate in heating and cooling mode until the ambient conditions reach 5° F

