KSIV SEER2

NEW RESIDENTIAL LINE

Home owner's preferred choice

Ductless Split Comfort Systems

7 YEAR COMPRESSOR LIMITED WARRANTY

5 YEAR PARTS LIMITED WARRANTY

KLIMAIRE®
Mark of Superior Quality

R-410A REFRIGERANT

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SMART DC INVERTER

Product Overview

Klimaire Ductless Mini-Split KSIV Series is the most recent addition to Klimaire's line of high-performance wall mounted mini split systems. This series offers up to 19 SEER efficiency with a full range of features that make it the smartest choice when you look for a reliable heating or cooling source. It could be used as the primary or as a supplement to your current heating or air conditioning system, with an outstanding design at an outstanding value. The DC inverter variable speed technology of these units enables low ambient cooling and heating down to 5º F, with its turbo heating and cooling, and the system will auto regulate the compressor to deliver the right amount of heating and cooling to keep the room temperature steady. This technology can generate energy savings of up to 49% compared to standard on/off systems. Finely tuned climate control offers the added benefits of less system wear and tear and whisper quiet operation. The standard infra-red remote control displays informative diagnostics of the performance of the system, it is user-friendly and can be programmed to your preferred settings.

What Klimaire brings you ...

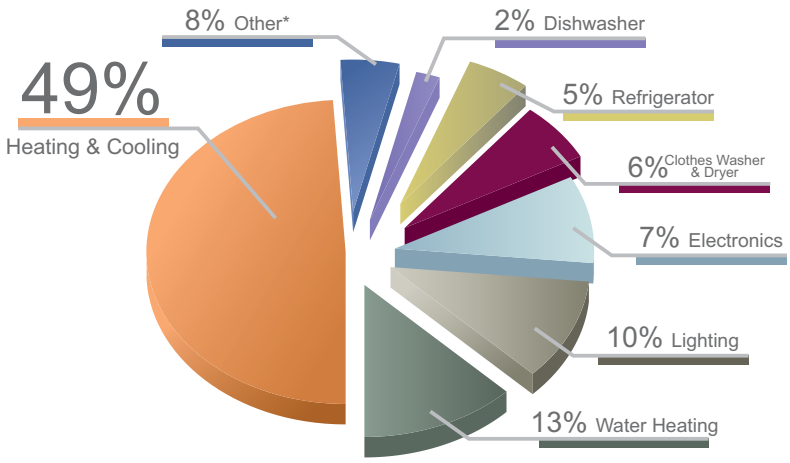
We have been in the Ductless Mini-Split business for over 25 years, Klimaire manufacturing maintains the highest standards of quality and reliability with ISO 9001 and ISO 14001a. Our products have proven their endurance and resiliency over time, operating in 70 different countries. All products are ETL certified and AHRI registered. Klimaire products exceed industry standards for energy efficiency and employ 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 solutions with duct free technology benefits. These systems are integrated with innovative inverter technology providing individual comfort and control. With our KSIV series we are committed to bring our valued customers additional savings with a unit almost ready to install, easily and quickly, with minimum HVAC technician assistance.

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.

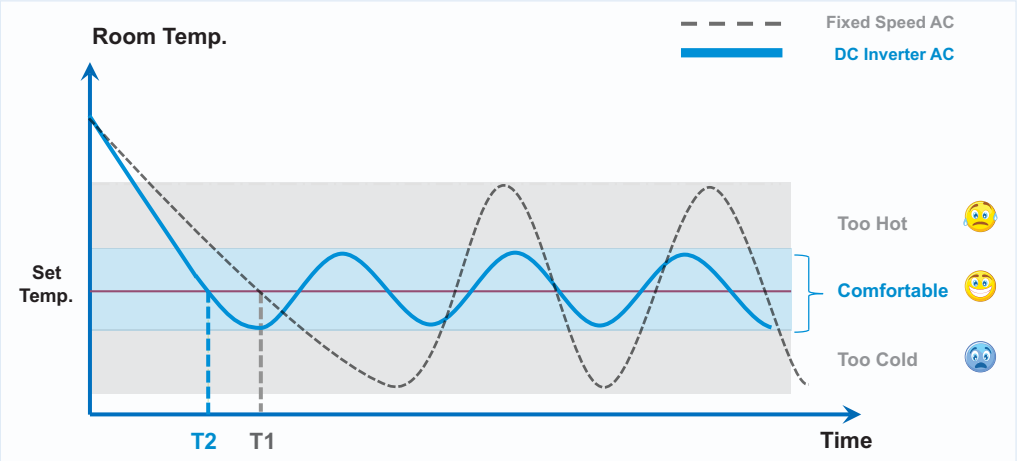


Klimaire ***Invertech*** DC Inverter - driven ductless air conditioners and heat pumps can save you up to 33% on your power utility bill when compared with room air conditioners or standard efficiency ductless systems. Ductless Invertech units are practical to install and preferred over traditional ducted central units.Additionally, because there is little or no ducting, the energy losses proper of ducted systems are non-existent. Total savings can reach up to 49% when heat pump technology is combined with an inverter system.

What is Klimaire DC Inverter?

SMART DC INVERTER

Klimaire 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.
Klimaire 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 Contioners/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.

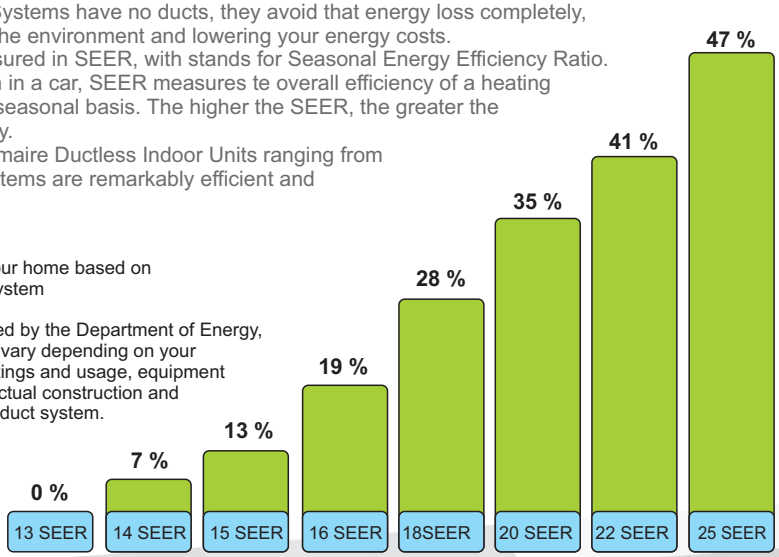


The higher the efficiency, the higher your savings

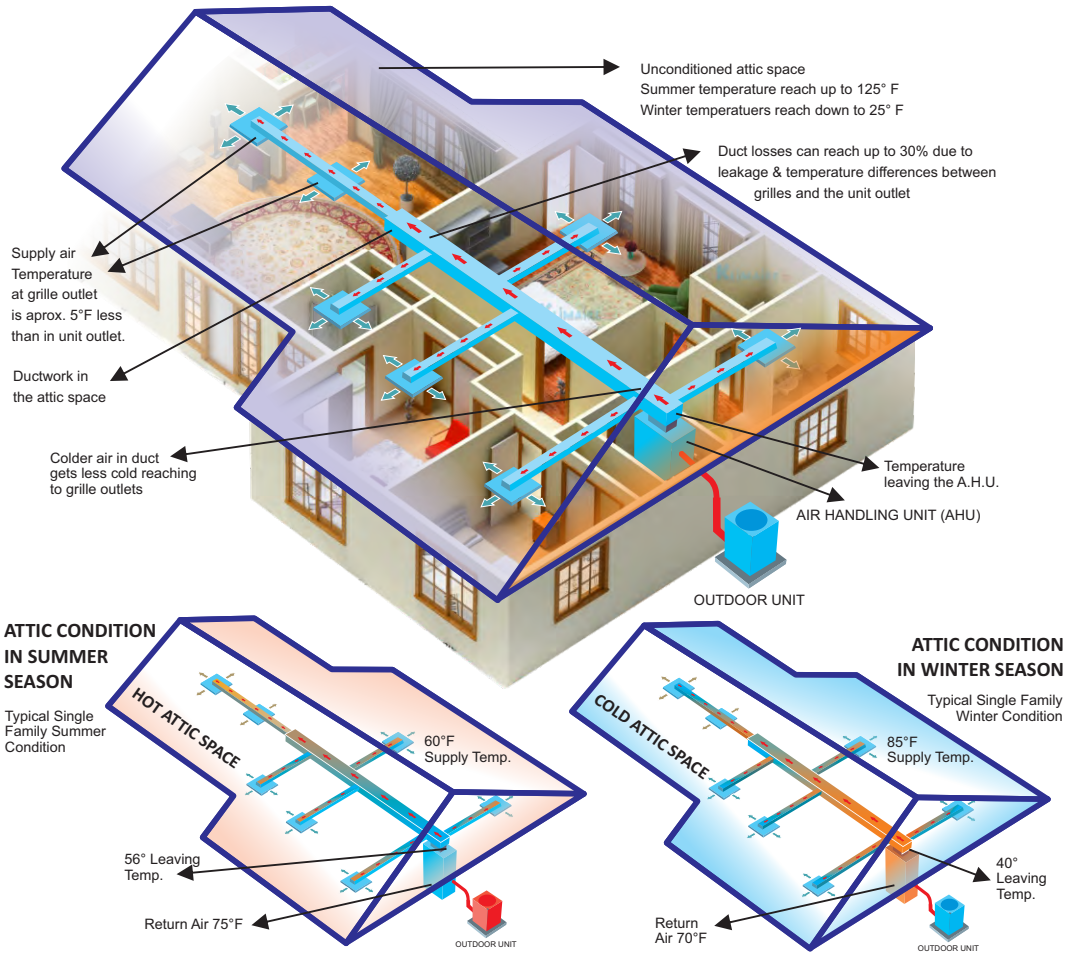
You´ll save energy everytime you use a Klimaire Ductless System.
Air ducts from a central forced air system can lose energy, with air leakage specially if the ducts run through unconditioned areas like attics or basements.
Since Klimaire Ductless Systems have no ducts, they avoid that energy loss completely, 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 Klimaire Ductless Indoor Units ranging from 14 to 25, 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, Potenial 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.



Ducted Systems Vs Ductless Systems

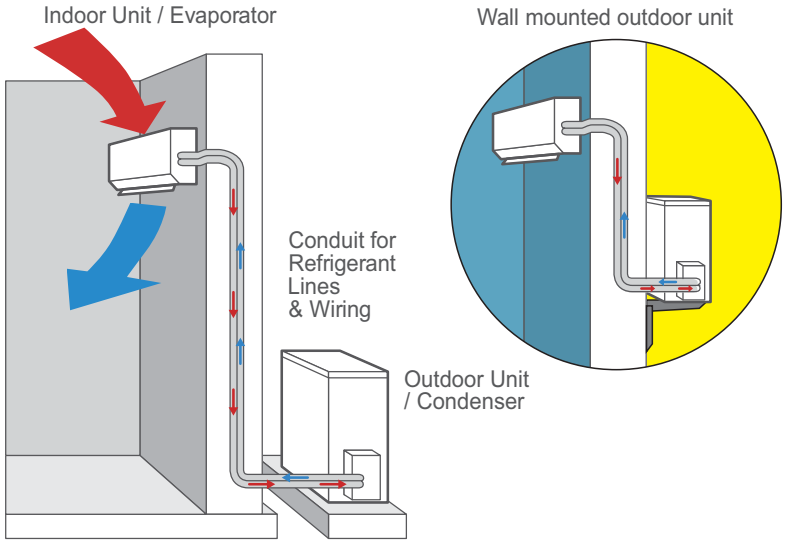


Summary: Duct Losses Can Be Over 30%

Ductless Mini-split

Personalized Comfort Solution

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.



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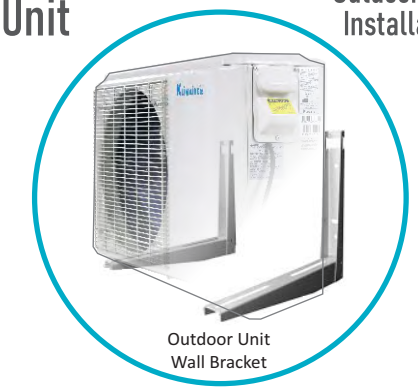
Outdoor Unit



Outdoor Unit
Wall Bracket

Optional Outdoor Unit Installation

Indoor Unit

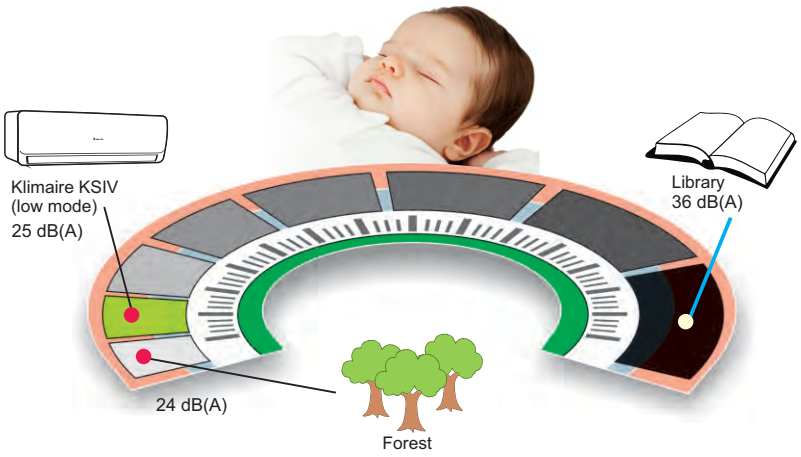
Quiet Operation

- Low Noise Design
- Optimize air discharge vane

Max Decrease **3.5dB(A)**

- Silent Mode

Indoor fan run at an extra breeze

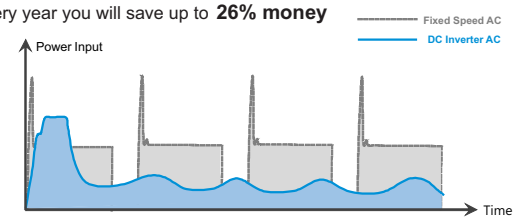


Energy Savings

Save 26%

• Inverter Saving

Every year you will save up to **26% money**



Example: Unit of 12000Btu/h (cooling capacity)

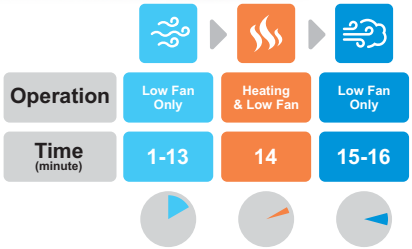
	Fixed Speed	Inverter
SEER	13	21
Cooling cost	$114	$73
Heating costs	$258	$202
Total	$372	$275

• According to AHRI , refer https:// www.ahridirectory.org for detail

Indoor Air Quality

Self Cleaning

Your Klimaire KSIV series equiped with Auto Clean Function. It cleans and dries the evaporator to prevent mildew grow and keep it fresh for next operation.

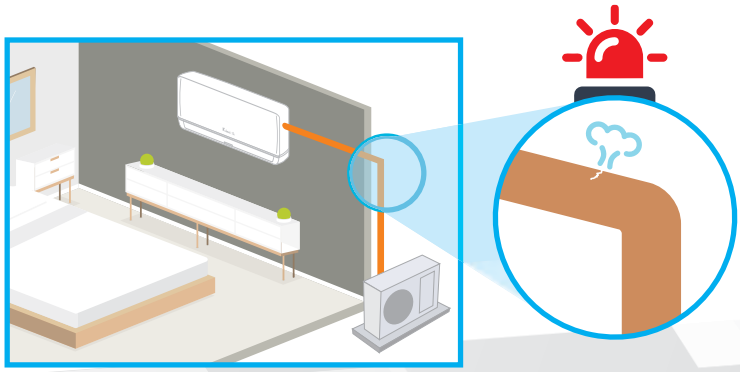


Air Filtration

Washable primary filter captures dust sizes over 10 nm

Refrigerant Leakage Detection

* You will be alerted when refrigerant is low.
* Preventes damage to the compressor
* Automatically turns off the unit



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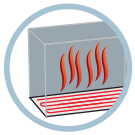
Mark of Superior Quality

Reliability

Base Pan Heater



Prevents defrost condensation from freezing ensuring proper defrost drainage during heating season to improve efficiency

Compressor Heater

Ensures Compressor longevity and reliability

Golden Fin

The unique anti-corrosive golden coating on the condenser coil can withstand the salty air rain and other corrosive elements.

Low Ambient Cooling

The air conditioner can run in cooling mode even when the outdoor ambient temperature is down to 5° F

Emergency Use

When temperature sensor error happens, the air conditioner will display error code and stop inmediately, while Klimaire AC will display error and continue running in a proper status, to avoid the case that AC is in urgent need.

Service Friendly

* Emergency Function Using

- Manual Switch Button

✓ Easy to turn on/off without a tool.

- Emergency Using Function

✓ Smartly detecting errors, your unit **keeps running** when in urgent need

Ordinary

KSIV SERIES

Easy Installation

Installation gap for pipe connection > 4 in. Normally about 3 in. It is easier to connect the pipe.

Installation position from right to left, more than 2 in. Installer does not need to find the mounted plate.

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

Control Options: Wherever you use the KSIV series either residential or commercial variety of control options are available

Wireless I- Remote Control

(Standard)

User friendly infrared wireless remote control with convenient and easy to read large LCD display, and function buttons clearly marked easy to set your preferred setting.

Wi-Fi Smart LCD

(Optional)

Klimaire Smart AC Controllers are loaded with an array of smart features to maximize your convenience and help you save the air conditioning costs.

Wi-Fi USB

(Optional)

Klimare Smart Kit Lets you control your ductless mini split AC using your smart phone or tablet.

Wireless Remote Control

Model Number: RG10A4(D1)BGEFU1

ON/OFF
Turns the unit on or off.

TEMP ∧
Increases temperate in 1°F increments.
Max. temperature is 86°F.

NOTE: Press together ∨ & ∧ buttons at the same time for 3 seconds will alternate the temperature display between the °C & °F.

SET
Scrolls through operation functions as follows:
Fresh( ) → Sleep( ) →
Follow Me( ) →
AP mode( ) → Fresh...

The selected symbol will flash on the display area, press the OK button to confirm.

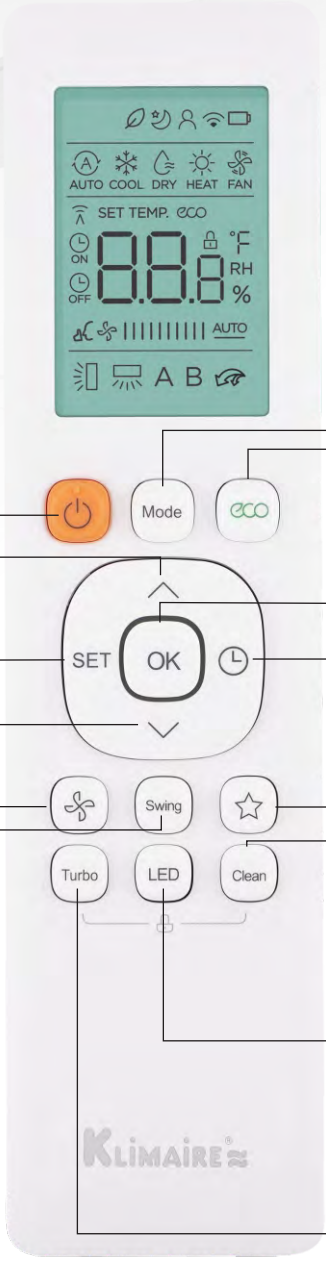
TEMP ∨
Decreases temperature in 1°F (1°C) increments.
Min. temperature is (60°F)

FAN SPEED
Selects fan speeds in the following order:

→AUTO→ LOW→ MED →HIGH

NOTE: Holding this button down for 2 seconds will activate Silence feature.

SWING
Starts and stops the horizontal louver movement. Hold down for 2 seconds to initiate vertical louver auto swing feature.



MODE
Scrolls through operation modes as follows: **AUTO → COOL → DRY → HEAT → FAN**

NOTE: HEAT mode is not supported by the cooling only appliance.

ECO
Press this button to enter the energy effcient mode.

OK
Used to confirm the selected functions

TIMER
Set timer to turn unit on or off

SHORTCUT
Used to restore the current settings or resume previous settings.

CLEAN
Used to start/stop the Self Clean or Active Clean function. (Model dependent, please refer to the USER'S OPERATION & INSTALLATION MANUAL).

LED
Turns indoor unit's LED display and air conditioner buzzer on and off (model dependent), which create a comfortable and quiet environment.

Turbo
Enables unit to reach preset temperature in shortest possible time

Remote Control Holder

Overview

Klimaire KSIV 19 SEER mini split heat pump systems offer extraordinary features. This type of air conditioners/heat pumps is ideal for small spaces calling for spot cooling or heating. The wall-mounted fan coils are simple to install and placed high on a wall where they operate quietly and blend into the room decor.

Klimaire slim and elegant single zone ductless systems provide the cooling or heating capacity for areas consider so far hard to condition , and are ideal for small spaces, or detached rooms application, where there is not enough floor space, or ceiling, or the attic is not suitable for additional ductwork. The outdoor unit is pre-charged to accomodate up to 25 ft of refrigerant tubing.

Comfort Features

Self Cleaning

Operating the using this function will clean and dry the evaporator to prevent mildew growth and keep it fresh for next operation.

Turbo Operation

When the air conditioner goes into this mode maximizes the cooling or heating capacity output cooling down or heating up the room fast.

Sleep mode

On this function, the unit automatically adjusts the temperature setting by 1.8 ºF per hour for the first two hours, then holds it steady for the next 5 hours, then switches off for all-night comfort.

Auto re-start & memory function

If the power fails, no settings will be lost. When the power resumes, the air conditioner will restart with the previous function setting automatically, eliminating the need for re-programming.

Dry mode

The individual dehumidification mode efficiently helps to control humidity level when cooling may not be necessary by sensing the room temperature and shutting down the comressor to avoid overcooling the rooms.

46ºF Heating

In heating operation, the preset temperature of the air conditioner can be as low as 46°F which keeps the room temperature steady at 46°F and prevents the house from freezing when it is unoccupied for a long time in severe cold weather.

High Density Filter

Captures smog, absorbs bad smells, decompose formaldehyde,removes micro-dust and releases vitamin C to clean and refresh the air

Auto level swing

Distributes cool/warm air to a maximum area by moving flaps automatically.

Air direction

Since cold air and warm air density is different, in cooling mode the indoor unit blows air horizontally, while downwards in heating mode. This technology makes the room temperature more consistent and comfortable during operation.

Anti-cold air (Heat Pump Only)

(Heat pump only) When starting the heating operation, the fan speed is automatically regulated from the lowest level to the pre-set level according to the temperature rising of the evaporator. This function prevents cold air from blowing out at the beginning of the operation, avoiding discomfort to the user.

Temperature Compensation

Changes the fan speed to 3 different settings to accommodate user's needs. It also helps to control humidity level when cooling may not be necessary.

Energy Saving

KSIV ductless mini split systems can be an energy-saving, cost-effective solution for a variety of applications:

Sleep Mode

Standard Features

- Auto Restart Function
- Timer
- Turbo Mode
- Self Clean Operation
- Follow Me
- Anti-cold Air Function
- Self-diagnosis and Auto-protection
- Auto Defrosting
- Emergency Using Function
- Refrigerant Leakage Detect
- High Density Filter
- Two-directional Airflow
- Temperature Compensation
- Louver Position Memory Function
- Manual Switch Button
- Fire-proof Electric Box
- Auto Swing
- 46ºF Heating

Convenience

2 Way Draining
Multi-outlet – The refrigerant tubes and the water outlet can be installed either on the right or the left side of the unit for installation flexibility.

Washable Filter
The indoor unit filters can be taken out and easily washed to keep air clean all the time.

Auto Re-start
The air conditioner memorizes the operation settings and when there is a power outage it will start up using these settings when the power is reestablished.

Wi-Fi Ready (Optional Smart Kit)
KSIV Series are built with Wifi capability once the optional Smart Kit USB plug-in.

Timer
The air conditioner can be turned on or off at any set time in a 24 hour period.

Louver Position Memory
With the hydrophilic aluminum fins the cooling efficiency of the AC will be improved by accelerating the condensed water flow between the fins. In the outdoor unit it improves the heating efficiency by accelerating the defrost process.

KSIV
Product Code

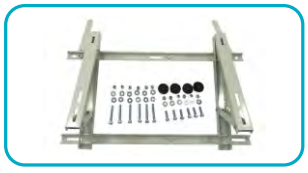
K S I V 012 – H 2 19 – O – 2

- **Brand**: K: Klimaire
- **Model**: S: System
- **Unit Type**: I : Inverter
- **Product Series**
- **Nominal Capacity**: 09: 9,000 Btu/h; 12: 12,000 Btu/h; 18: 18,000 Btu/h; 24: 24,000 Btu/h
- **Operational Information**: H: Heat Pump
- **Power Supply**: 1 : 115/60; 2 : 208-230/1/60
- **Efficiency**: up to 22 SEER2
- **Unit Type**: O: Outdoor; I: Indoor; W: Wi-Fi Capability
- **Minor Design Change**

ACCESSORIES
(Optional)

Installation kits
15 and 25 ft.

Mini Aqua Condensate
Removal Pump



Pitch-roof

Wall

Outdoor unit brackets

Wi-Fi Capability (Optional)

How does it work?

Control Your Klimaire® Mini-Split From Anywhere

iOS or Android APP

The mini-splits are controlled from a webpage or using an iOS or Android APP in a very intuitive way.

Smart Kit (Wi-Fi)

An optional Smart Kit (Wi-Fi) device installed in each unit controls the operation.

Cloud Managed

A Server in the cloud manages the whole process.

Wi Fi Control Features

Optional Smart Kit

To have remote access to control your Klimaire unit, optional smart kit should be installed.

Turn on/off mini-split

Turn your A/C on/off as you wish

Change Program Settings

Change the program settings, such fan speed, temperature, and operation mode

Temperature Home

Monitor current room temperature, set timer on/off activate frost protection and sleep timer.

Check AC

Check AC running status and display detailed information

Program Calendar

Program the mini-split with a calendar scheduler in an easy, intuitive way.

Save Money

Save money without losing comfort.

Remotely managed

Remotely manage your mini-split system using a simple smartphone, tablet or PC via the Internet.

Your Klimaire Wi-Fi enabled air conditioner lets you control your ductless mini split air conditioner using your smartphone or tablet from anywhere internet connection is available. Our free IOS and Android smartphone app gives you the freedom to instantly adjust your settings saving you time and money on energy consumption and cost.

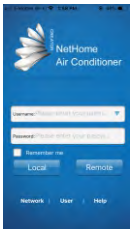
Optional Smart Kit

Standard Wi-Fi b/g/n router

Cloud System

iOS and Android APPS

From Everywhere



Heat Pump Systems

Set Model Number			KSIV009-H119-S-2(W)	KSIV012-H119-S-2(W)	KSIV009-H219-S-2(W)	KSIV012-H219-S-2(W)	KSIV018-H219-S-2(W)	KSIV024-H219-S-2(W)	KSIV030-H219-S-2(W)	KSIV036-H219-S-2(W)
Indoor unit model number			KSIV009-H119-IW-2	KSIV012-H119-IW-2	KSIV009-H219-IW-2	KSIV012-H219-IW-2	KSIV018-H219-IW-2	KSIV024-H219-IW-2	KSIV030-H219-IW-2	KSIV036-H219-IW-2
Outdoor unit model number			KSIV009-H119-O-2	KSIV012-H119-O-2	KSIV009-H219-O-2	KSIV012-H219-O-2	KSIV018-H219-O-2	KSIV024-H219-O-2	KSIV030-H219-O-2	KSIV036-H219-O-2
Power supply		V/ph/Hz	115/1/60	115/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Cooling	Capacity (range)	Btu/h	9000	12000	9000	12000	18000	24000	30000	36000
	Input	W	782	1020	782	1065	1645	2500	2855	4256
	Rated current	A	6.8	8.87	6.8	4.5	7.35	11.0	12.4	18.4
	EER	Btu/w	11.5	10.5	11.0	11.0	11.0	9.5		
	SEER	Btu/w	19	19.00	18.0	19.0	19.00	19.0		
	EER2 *	Btu/w	12.5	10.3	12.6	10.8	10.5	9.0	10.5	8.5
	SEER2 *	Btu/w	21.5	20.8	21.7	21.4	19	18	18.6	17.5
Heating	Capacity (range)	Btu/h	10000	12000	10000	12000	18000	24000	30000	36000
	Input	W	925	1026	925	1025	1700	2200	3250	4256
	Rated current	A	8.1	8.93	8.1	4.3	7.4	9.6	14.2	18.4
	COP	W/W	1.89	1.91	1.96	1.68	2.10	1.78	1.84	1.97
	HSPF	Btu/w	10	9.5	9.5	9.5	10.0	9.5		
	HSPF2 *	Btu/w	9	8.7	9.1	9.1	8.7	8.6	8.7	8.7
Minimum Circuit Ampacity		A	16	15	10	15	15	20	23	28
Max Fuse Size		A	20	20	15	15	20	25	30	35
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Capacity	W	3100	3100	3100	3100	4370	7715		
	Input	W	790	790	790	790	1135	2085	2200	2200
	Rated current (RLA)	A	6	6	6	6	7.5	9.45	15.0	18.0
Indoor fan motor	Input	W	35.2	35.2	50	50	36	116	115	
	Output	W	20	20	20	20	30	60	58	58
	RLA	A	0.712	0.712	0.06	0.06	-	0.37		0.5
	Speed (Hi/Mi/Lo)	rpm	1050/850/600	1100/850/750	1240/850/650	1100/900/750	1100/800/750	1100/900/750	1200/1050/950	1200/950/750
Indoor air flow (Hi/Mi/Lo)		cfm	247/182/129	294/212/171	309/285/187	324/282/212	449/97/393/262	706/588/450	794/617/470	882/517/400
Indoor noise level (Hi/Mi/Lo)		dB(A)	38/32/25	38/30/28	38/32/25	38/32/24	43/35/30.5	48/42.5/34	51.5/47.5/44	56.5/54.5/40
Indoor unit	Dimensions (W*D*H)	in	28.43x7.36x11.42	31.57x7.44x11.69	28.43x7.36x11.42	31.57x7.44x11.69	37.99x8.46x12.56	42.52x8.90x13.19	49.57x11.1x14.3	49.6x11.1x14.3
	Packing (W*D*H)	in	31.10x10.63x14.57	34.45x11.22x14.76	31.10x10.63x14.57	34.45x11.22x14.76	41.14x12.01x15.94	45.47x16.34x12.40	52.8x17.7x15.2	52.8x17.7x15.2
	Net/Gross weight	lb.	17.2/22.7	18.96/24.91	17.0/22.7	18.96/24.91	24.03/32.19	30.2/39.68	37.5/50.5	40.3/52.7
Outdoor fan motor	Input	W	58	58	58	58	58	50	150	150
	Output	W	34	34	34	34	34	115	120	120
	RLA	A	0.39	0.39	0.39	0.39	0.39	0.5	0.6	0.5
	Winding Resistance	Ω	77.3	77.3	77.3	77.3	77.3	37.3		
	Speed	rpm	850/650	800/650	850/650	800/750/650	800/750/650	800/750/650	900/750	1050/850
Outdoor air flow		cfm	1176.47	1176.47	1176.47	1176	1176	1823	2235	2235
Outdoor noise level		dB(A)	52	55	52	55	57.5	58	60	63
Outdoor unit	Dimension (W*D*H)	inch	30.31x11.81x21.85	31.50x13.11x21.81	30.31x11.81x21.85	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24x16.1x31.9	37.2x16.1x31.9
	Packing (W*D*H)	inch	35.43x13.58x23.03	36.22x15.35x24.21	35.43x13.58x23.03	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x30.12	42.9x19.7x34.84	42.9x19.7x34.84
	Net/Gross weight	lbs.	66.8/71.87	70.33/76.28	66.8/71.87	67.0/72.75	79.8/85.76	105.16/112.22	141.8/151.9	150.1/159
Refrigerant type		oz	R410A/30	R410A/29.63	R410A/30	R410A/29.63	R410A/44.09	R410A/62.79	R410A	R410A
Refrigerant precharge		ft	25	25	25	25	25	25	25	25
Additional charge for each ft		oz	0.161	0.161	0.161	0.161	0.161	0.322	0.32	0.32
Design pressure		psig	550/340	550/340	550/340	550/340	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/ Gas side	in	1/4"/3/8"	1/4"/1/2"	1/4"/3/8"	1/4"/1/2"	1/4"/1/2"	3/8"/5/8"	3/8"/5/8"	3/8"/5/8"
	Max. refrigerant pipe length	ft	82	82	82	82	98	98	164	213
	Max. difference in level	ft	33	33	33	33	66	66	82	98
Connection wiring - Stranded. unshielded			16AWG*4	16AWG*4	16AWG*4	16AWG*4	16AWG*4	16AWG*4	14AWG*4	14AWG*4
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control
Room temperatue	Indoor (cooling/ heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86
	Outdoor (cooling/heating)	°F	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86	5~122/5~86

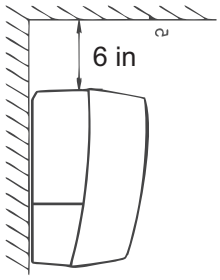
* EER2. SEER2. HSPF2 Values as per the new energy efficiency regulations starting on January 1. 2023

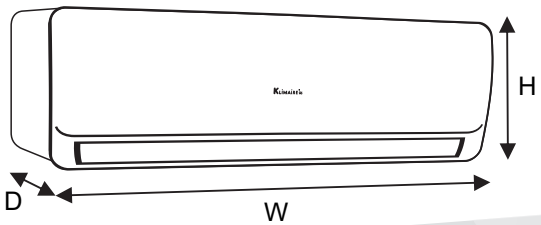
Continued product improvement is our goal at Klimaire Products. Inc. Hence. specifications and data listed herein are subject to change without notice and without obligation on our part.

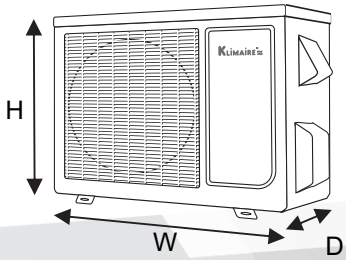
Allways comply with local. state. and national electrical codes.

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)







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Note: The data in this brochure may be changed without notice for further improvement on quality and performance

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