

NEW RESIDENTIAL LINE Home owner's preferred choice **Ductless Split Comfort Systems**

5YEAR

PARTS LIMITED WARRANTY

7 YEAR













Intertek



Product Overview

What

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 5° 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.

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.

Klimaire brings you ... Ductless Mini-S increasing. The conveniently of

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?



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







Ducted Systems Vs Ductless Systems





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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ave 26%

Fixed Speed AC

Energy Savings

Inverter Saving

Every year you will save up to 26% money



Example: Unit of 12000Btu/h (cooling capacity)									
SEER	13	21							
Cooling cost	\$114	\$73							
Heating costs	\$258	\$202							
Total	\$372	\$275							

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

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



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.







Reliability

Base Pan Heater



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



Ensures Compressor longevity and reliability



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 S



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

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





USB (Optional)

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







Wireless Remote Control Model Number : RG10A9(D2S)/BGEFU1







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 °F 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.



46°F 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:



Standard Features





Timer

Auto Restart Function



Self-diagnosis and

Auto-protection

Temperature

Compensation



Auto Defrosting



Louver Position Memory Function

Convenience

2 Way Draining

Auto Re-start

reestablished.



Turbo Mode





Follow Me

High Density Filter

Auto Swing



Anti-cold Air Function





Two-directional Airflow



46°F Heating

Emergency Using Function



Manual Switch Button



Refrigerant

Leakage Detect

Fire-proof Electric Box





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



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.

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.

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



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 012 **–** H 2 K S 19 V \mathbf{O} 2 Minor Design Change Unit Type Brand Nominal Capacity Efficiency O: Outdoor K: Klimaire 09: 9,000 Btu/h up to 22 I: Indoor Model SEER2 12: 12,000 Btu/h W: Wi-Fi Capability S: System Unit Type 18: 18,000 Btu/h Power Supply 24: 24,000 Btu/h I : Inverter 1:115/60 2:208-230/1/60 **Product Operational Information** Series

H: Heat Pump

ACCESSORIES (Optional)





Installation kits 15 and 25 ft.

Mini Aqua Condensate Removal Pump





Pitch-roof

Outdoor unit brackets





Wi-Fi Capability (Optional)

Control Your Klimaire® Mini-Split From Anywhere

How does it work?



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

Wi Fi Control Features



Optional Smart Kit To have remote access to control your Klimaire unit, optional smart kit should be installed. **Temperature Home**

Monitor current room





Check AC Check AC running status and display detailed information

Turn on/off mini-split

Turn your A/C on/off

as you wish

Smart Kit (Wi-Fi)

An optional Smart Kit

in each unit controls

the operation.

(Wi-Fi) device installed









Program Calendar

Cloud Managed

the whole process.

A Server in the cloud manages

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



Save Money

sleep timer.

Save money without losing comfort.

temperature, set timer on/off

activate frost protection and



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.







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		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
	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
Cooling	FFR	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		
	FFR2 *	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
	Canacity (range)	Btu/h	10000	12000	10000	12000	18000	24000	30000	36000
	Innut	W	925	1026	925	1025	1700	2200	3250	4256
Heating	Rated current	Δ	8.1	8.03	8.1	/ 3	7.4	9.6	14.2	18 /
Tieduliy		 	1.80	1 01	1.06	1.68	2.10	1.78	1.8/	1.07
		Dtu/w	1.09	0.5	0.5	0.5	2.10	0.5	1.04	1.01
		Dtu/w Dtu/w	0	9.5	9.0	9.5	9.7	9.5	9.7	9.7
Minimum Circu	I OF FZ	Dlu/W	16	0.7	3.1	3.1	0.7	20	0.7	0.7
May Euro Siza	папрасну	A	10	10	10	15	10	20	20	20
Wax Fuse Size	Turne	A	ZU	ZU	10 Deter:	IU Deter:	ZU	ZJ	JU	Deter
C	Conneitu	14/	Rolary	Rolary	Rolary	Rolary	Rolary		Rolaly	Rolary
Compressor	Capacity	VV	3100	3100	3100	3100	4370	//10	0000	0000
		VV	790	/90	790	/90	1135	2085	2200	2200
	Rated current (RLA)	A	6	6	6	6	7.5	9.45	15.0	18.0
	Input	VV	35.2	35.2	50	50	36	116	115	50
Indoor fan	Output	W	20	20	20	20	30	60	58	58
motor	RLA	A	0.712	0.712	0.06	0.06	-	0.37	1000/1050/050	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		24//182/129	294/212/171	309/285/187	324/282/212	449/97/393/262	/06/588/450	/94/61//4/0	882/51//400	
Indoor noise level (Hi/Mi/Lo) dB(A		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
	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
Indoor unit	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
	Input	W	58	58	58	58	58	50	150	150
Outdoor	Output	W	34	34	34	34	34	115	120	120
fan motor	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 I	evel	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	9	ΟZ	R410A/30	R410A/29.63	R410A/30	R410A/29.63	R410A/44.09	R410A/62.79	R410A	R410A
Refrigerant pre	charge	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 Refrigerant piping	e	psig	550/340	550/340	550/340	550/340	550/340	550/340	550/340	550/340
	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 typ	e		Remote Control	Remote Control						
Room	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
temperatue	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.

Minimum 10 ft line set recommended.
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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Ultimate Cooling and Heating Solution



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

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