

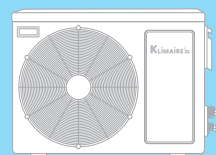
KS1A SERIES
16 SEER



NEW RESIDENTIAL LINE

- ADVANCED TECHNOLOGY
- ENERGY SAVINGS
- ECO-FRIENDLY

Klimaïre®
Mark of Superior Quality





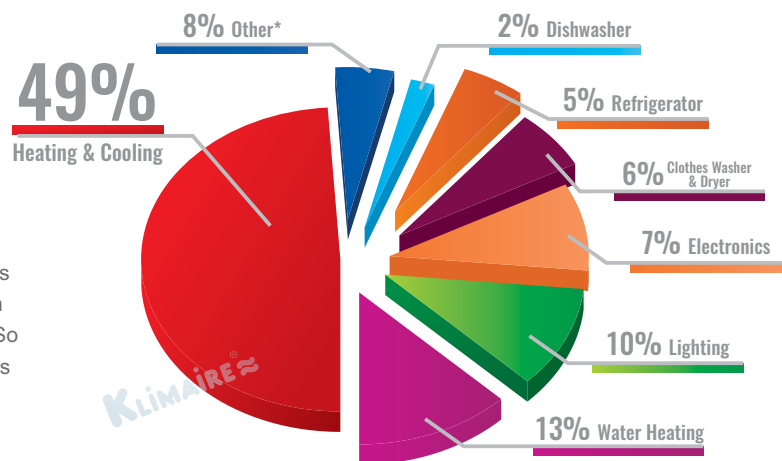
What Klimaire brings you ...

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 KSIA 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.

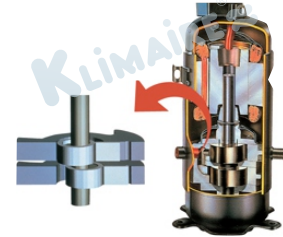
Klimaire **Invertech** DC Inverter - driven ductless air conditioners and heat pumps can save you up to 33% on your power utility bill when compared with room air conditioners or standard efficiency 10 SEER ductless systems. Ductless Invertech units are practical to install and preferred over traditional ducted central units. Total savings can reach up to 49% when heat pump technology is combined with an inverter system.



Product Highlights

Klimaire Invertech DC inverter -driven air conditioners and heat pumps are among the most ultimate in cooling and heating technology available in HVAC.

A high performance double cam twin rotary compressor increases the performance, reliability, and durability. Energy savings are much higher with this INVERTECH DC INVERTER - driven variable speed compressor.

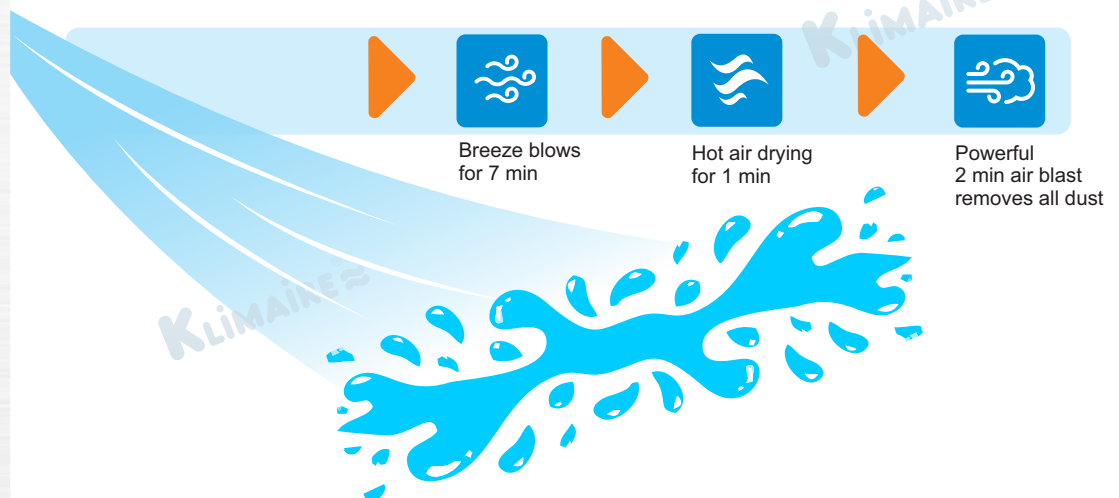


Homeowners and neighbors enjoy the quiet whisper of the outdoor units operation, less noise to the surroundings keeps the environment peaceful.



Hydro-AUTO CLEAN

CLEAN THE AC, ENJOY THE FRESH AIR



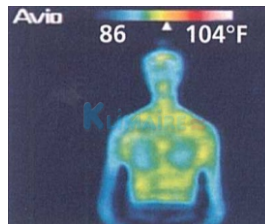


Unique Comfort in Cooling & Heating

Since humidity is a major factor for comfort, Klimaire DC INVERTER adjusts to summer and winter months – driven variable speed compressors reduces capacity to match lighter loads, increasing the run time to remove moisture and reduce relative humidity resulting in improved comfort. In the winter, by increasing the speed of the compressor, Klimaire air conditioner and heat pump systems are able to maintain capacity and deliver hotter supply air even at low outdoor ambient conditions.

Room temperature 77°F
Humidity 50%

COMFORTABLE
Decreasing humidity
while maintaining
the temperature
increases comfort



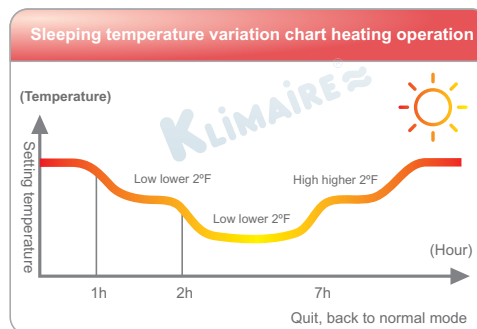
Room temperature 77°F
Humidity 80%

UNCOMFORTABLE
Hot and stuffy with
high humidity

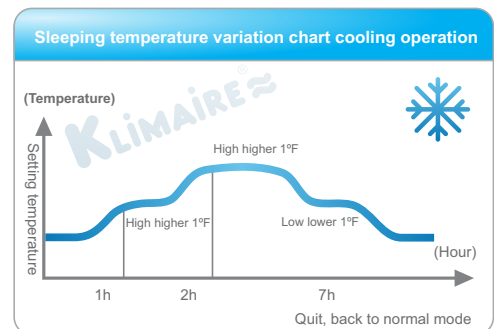
Deep SLEEP system

Once you select SLEEP mode you will enjoy comfortable and high quality sleep. Klimaire's innovative deep sleep technology varies the room temperature to help you enter and remain in a deep sleep. This new science is superior to the traditional one-temperature model.

Activated in Heat mode



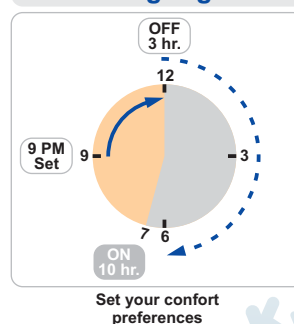
Activated in Cool mode



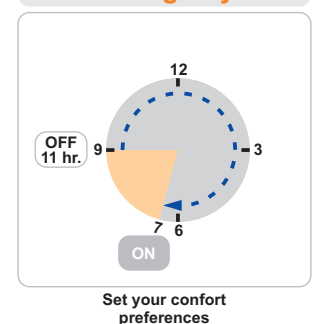
ON/OFF 24 hr. Programmable Timer

Remote Control Timer can be set ON/OFF easily upto 24 hours using the wireless remote control (Set time: 0.5, 1, 1.5, 2, 2.5,...)

During Night



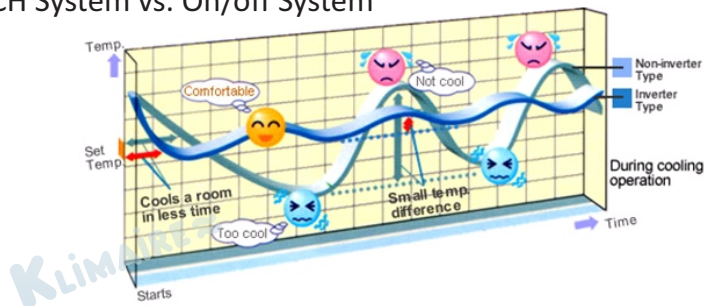
During Day





Optimum Comfort - Reduced Temperature Fluctuation

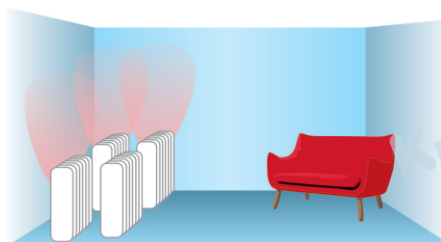
- INVERTECH System vs. On/off System



Temperature fluctuations are much higher in traditional (on/off cycling) systems compared to Invertech driven inverter systems. This affects indoor comfort. Real comfort does not only depend on temperature. Dehumidification especially during hot sticky weather, is an essential and integral part of cooling. The inverter driven systems are the most efficient way to remove moisture and control humidity levels.

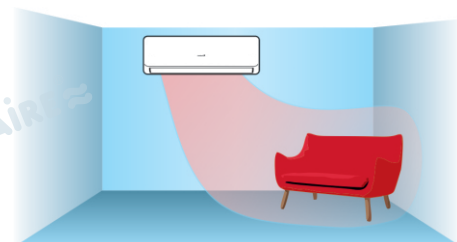
Superior Savings in Heating (Excellent source of heating)

Electric Heaters
18.000 Btu Energy Output



4.0 kW

Klimaire KSID
18.000 Btu Energy Output



0.8 kW

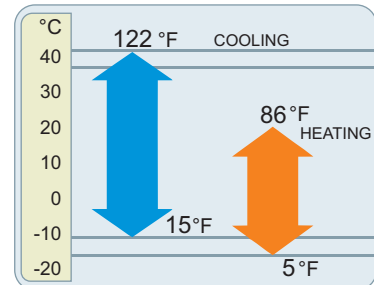
Heating an area with an electric heater for a long period of time is generally considered to be more expensive than using a HVAC heat pump. The cost of heating a space with it can be up to four times the cost of using a heat pump.

A heat pump moves heat from the surrounding ambient air and transfers it to inside of the house in cold weather. It is preferable in most applications as it has lower electrical consumption, longer life expectancy, better heat transfer and heats more evenly, and consequently more efficiently.



Low Ambient Running (Heating Mode)

The outdoor unit special design and the proper use of heating elements make easy to start and defrost the unit even when the outdoor temperature is 5 °F.

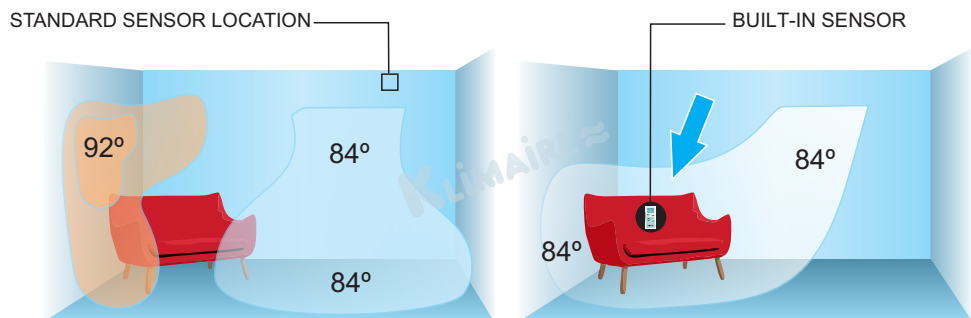


Thin & Slim design

Thin and slim design is realized by multi-bend high efficient hydrophilic fin heat exchanger and high efficiency bower wheel.



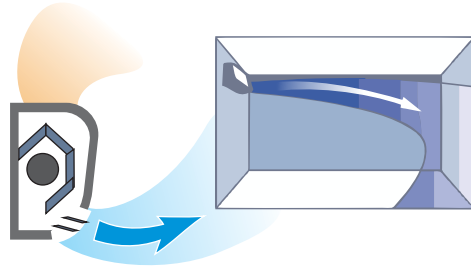
i Feel



The remote control's built-in temperature sensor is like a moving thermostat. Heating and cooling automatically adjusts to maintain the temperature setting around anyone carrying the remote. It's like the mini-split is following the user.

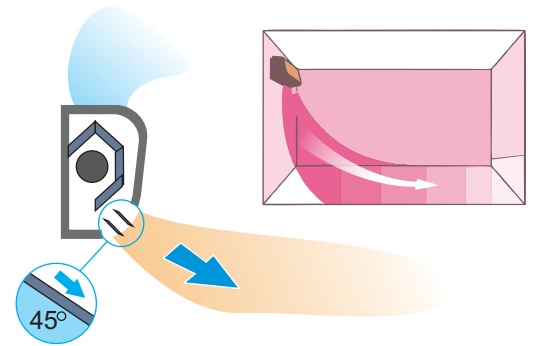


Horizontal Flow



Cool air is blown horizontally and upwards, not directly at the occupants. Since cold air is more dense and heavier than hot or warm air, it naturally sinks and cools the room more uniformly.

Vertical Flow



In heating mode, the air is blown down toward the floor to heat the room from the ground up. This not only warms the occupants more quickly, but it also helps to heat the room more uniformly.

Air Filtration

Convenience to meet your needs

Option A Combo Filter

VITAMIN C

The filter is made of Vitamin C-emitting material and synthetic fiber. When the air passes through this section of the filter, Vitamin C is discharged into the room. This makes the indoor air feel fresh and healthy.



ANTI-FORMALDEYDE

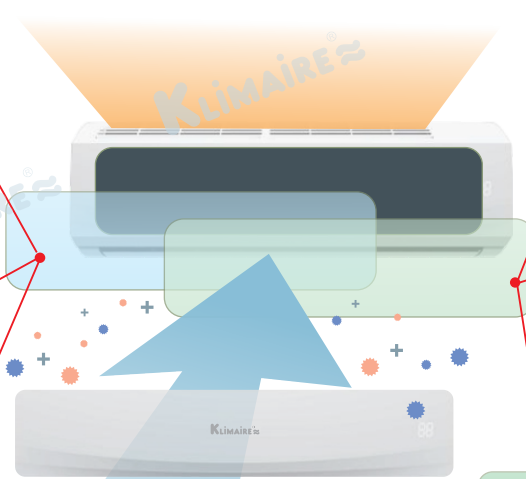
filters the out the formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and offending odors.



CARBON FILTER

The filter's highly porous surface attracts and removes certain odorous organic compounds and traps them instead of just masking the offending odors.

Combo Filters:



Option B Combo Filter

CATECHIN



This filter uses static electricity to remove fine particles and dust in the air.

SILVER ION ANTI BACTERIAL

This anti-bacterial filter kills many types of bacteria and helps to control the growth of microbes, fungi, spores and many other harmful air pollutants.



BIO FILTER

This filter consists of a specialized biological enzyme filter and eco filter. The Eco filter catches very small airborne dust particles, bacteria, fungi, and microbes. The biological enzyme filters dissolves the cell wall of the bacteria to eliminate the problem.



Health Functions (Standard)



Anti Fungus

The air conditioner will start the anti-fungus function after the cooling and the dehumidify modes. This will prevent the proliferation of fungus and bacteria to keep the environment healthy and comfortable.



Self Cleaning

When activated this function, the fan coil will operate in cooling mode at low fan speed. During this period the condensed water will take away dust on the evaporator fins, then it turns to heating mode at low fan speed to dry the inside of the fan coil, and finally it turns to fan only mode to blow away the wet air. This whole process keeps the interior of the unit dry preventing bacteria breeding.

Health Functions (Optional)



Compound Filter A

Combo Filter Package 1 (Optional) – This filter combines a yellow vitamin C healthy material, black activated carbon, and a portion of red anti-formaldehyde material filters for better cleaning and condition the air in the area



Compound Filter B

Combo Filter package 2 (Optional) – This filter is compounded of a blue Catechin, a white antibacterial Ag+, and a green biological antibacterial filters to clean and condition air in the living area



Super Lytic-enzyme PP HEPA Filter

This filter is made of super lytic-enzyme compounded with PP HEPA and combined with active carbon. It has an efficiency of over 99.97% against micro-particles (above 0.3 μm) which produces over 99% reduction of bacteria, and effectively helps in resisting both A and B influenza virus.

Comfort Functions



Feeling

(iFeel) – When you stay close to the remote control a built-in temperature sensor senses the temperature around you and automatically chooses the operation mode to achieve an accurate and comfortable temperature just as if the air conditioner were following you.



Dry

In this mode the air conditioner efficiently dehumidifies the room.



Anti-Cold-Air (Heat Pump Only)

When the heating operation starts the fan coil will automatically run from the lowest speed to the preset level, so it will prevent cold air blowing out at the start of the operation avoiding discomfort too the user.



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.



Two-Direction Airflow

In cooling mode the fan coil blows the air upwards and then it will sink due to the higher density, while in the heating mode it will blow the air downwards for the air to move up due to its lower density. This design brings more comfort during the cooling and heating seasons.



Low Noise Airflow System

A large diameter cross flow fan brings down the noise of the indoor unit by lowering the fan speed without decreasing the air flow and the capacity output.



Convenience



Dual Side Water Outlet

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.



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.



Timer

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



Washable Filter

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



Washable Front Panel

The front panel can be easily removed to wash and keep its elegant appearance.

Energy Saving



DC Inverter 180° Sine Wave

Sine wave technologies has considerable advantages for its much wider range frequency and voltage, higher energy efficiency, smoother running and lower noise, and more reliable and smoother operation.



Sleep Mode

During sleep mode the AC will automatically increase (cooling) or decrease (heating) by 1° per hour in the first two hours and switch off after 5 hours. The sleep mode function helps to maintain the most comfortable temperature and to save more energy.



Multi-bend Evaporator

This design enlarges the evaporator area, producing higher heat exchange efficiency than the compact indoor unit design.



0.5W Stand-by

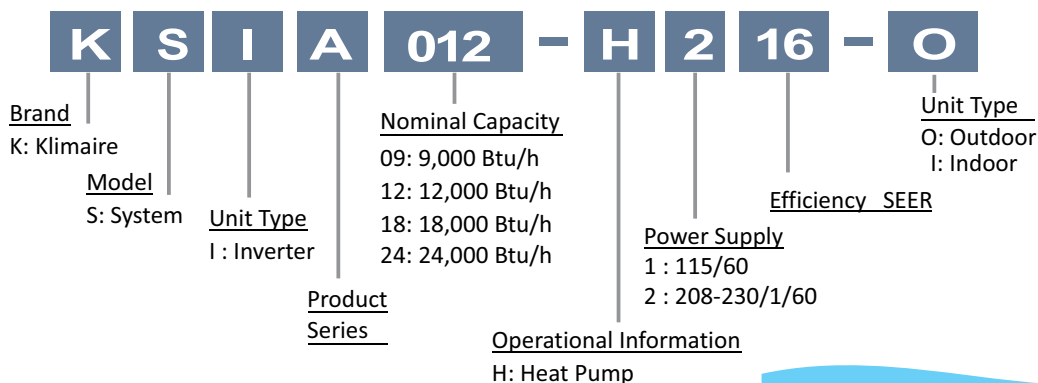
With a newly designed PCB the 0.5W stand-by mode enables the air conditioner to cut energy consumption from 4-5w to 0.5W compared to conventional units.



Hydrophilic Aluminum fin

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.

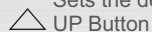
KSIA - Product Code:



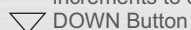
Remote Control

SET Button

Sets the desired temperature



UP Button
Push this button to increase the indoor temperature setting in 1°F increments to 86°F.



DOWN Button
Push this button to decrease the indoor temperature setting in 1°F increments to 62°F.

CLEAN Button

The air conditioner will automatically clean and dry the evaporator and keep it as fresh for the next operation.

MODE Button

Each time the button is pressed, the operation mode is selected in a sequence of following:
AUTO COOL DRY HEAT FAN

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.

SWING Button

Set the fan coil vanes to move up and down to distribute the air inside the room.

HEALTH Button

Turn "ON" or "OFF" the health function

FUNGUSPROOF Button

The individual dehumidification mode efficiently helps to control humidity level in the fan coil. When the Ac is turned off, press the FUNGUSPROOF button and the AC will work in heating mode for about 3 minutes too dry the coil.

ON/OFF Button

Operation starts when this button is pressed and stops when this button is pressed again

FRESH Button

SPEED Button

Used to select the fan speed in four steps
FAN HIGH MID LOW

STRONG (Turbo) Button

by pressing this button the air conditioner goes into turbo mode. This function enables the unit to reach the preset temperature at cooling or heating operation in the shortest time.

FEELING Button

The built-in temperature sensor senses the temperature around you and automatically chooses the operation mode to achieve an accurate and comfortable temperature.

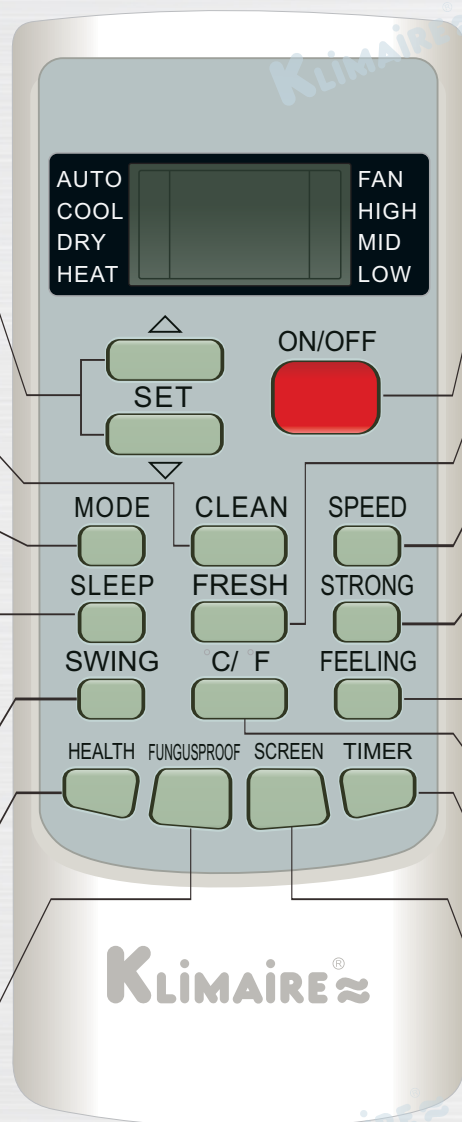
°C/ °F Button

Changes the screen to display the temperature either in Fahrenheit or Celsius degrees.

TIMER Button

The air conditioners can be turned ON or OFF at any desired time within a 24-hr period.

SCREEN Button



16 SEER

KSIA SERIES

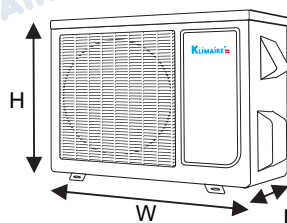
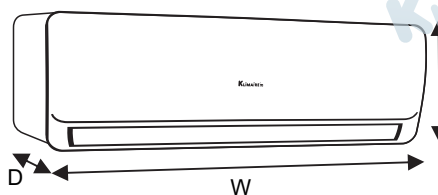
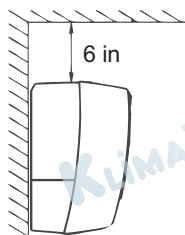
Klimaïre Model Number		KSIA009-H216	KSIA012-H216	KSIA018-H216	KSIA024-H216
Power Supply		V / ph / Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
Cooling	Capacity	Btu/h	9000	12000	18000
	Inverter Capacity Range	Btu/h	3753~10918	4094~13306	5118~19107
	Power Input	kW	0,84	1,36	2,05
	Rated Current	A	3,68	5,94	8,96
	Indoor Air Flow Volume	cfm	540	560	840
	SEER		16,3	16	16,4
	EER		9,6	9,9	9,4
Heating	Capacity	Btu/h	10000	12000	18000
	Inverter Capacity Range	Btu/h	4435~11942	4094~13648	5118~19107
	Power Input	kW	0,941	1,16	1,715
	Rated Current	A	5,34	6,54	7,49
	HSPF		8,4	8,2	8,4
	COP		11,26	10,58	10,75
Minimum Circuit Ampacity		A	7,2	7,9	6,5
Max Overload Protection Breaker		A	15	15	15
Dehumidification		pint/h	1,69	2,5	3,17
Compressor	Type		Rotary	Rotary	Twin-rotary
	Power Input	W	735	825	1255 (4000 rpm)
	Rated current (RLA)	A	5,25	5,8	4,2
	Locked Rotor Amp (LRA)	A	20	20	20
Outdoor Fan Motor	Power Input	W	36	36	60
	RLA	A	0,31	0,31	0,51
	Speed (Hi/Mi/Lo)	rpm	770/550/500	850/550/450	900/700/600
Outdoor Air Flow		cfm	1089	1089	1400
Outdoor Noise Level		dB(A)	50	50	53
Indoor Fan Motor	Power Input	W	41	41	80
	RLA	A	0,21	0,21	0,425
	Speed (Hi/Mi/Lo)	rpm	1130/1000/850	1130/1000/850	1080/970/850
Indoor Air Flow		cfm	540	560	840
Indoor Noise Level (L-M-H)		dB(A)	30 - 32 - 37	35 - 39 - 43	37 - 41 - 45
Max Refrigeration Pipe Length		ft	49,2	49,2	98,4
Max Elevation Difference		ft	16,4	16,4	23
Refrigerant Type			R-410A	R-410A	R-410A
Refrigerant Charge (up to 25ft line set)		oz	27,51	34,22	56,44
Refrigerant Pipe Size	Liquid	in	1/4	1/4	1/4
	Gas	in	3/8	1/2	5/8
Drain Hose Connection OD		in	1/2	1/2	1/2
Design Pressure		psig	550 / 340	550 / 340	550 / 340
Connection Method		Type	Flare	Flare	Flare
Connecting Wiring		AWG	4*18 AWG	4*18 AWG	4*18 AWG
Operation temperature	Indoor (Cooling/Heating)	°F	60.8 – 89.6/ 60.8 – 89.6	60.8 – 89.6/ 60.8 – 89.6	60.8 – 89.6/ 60.8 – 89.6
	Outdoor (Cooling / Heating)	°F	50– 125.6/5-104	50– 125.6/5-104	50– 125.6/5-104
Indoor Unit	Unit Dimensions (W x H x D)	in	29.5 x 11.2 x 7.9	29.5 x 11.2 x 7.9	35.4 x 12.2 x 8.9
	Packing Dimensions (W x H x D)	in	32.3 x 13.6 x 11	32.3 x 13.6 x 11	38.2 x 15.6 x 12
	Net / Gross Weight	lb	17.6 / 22	18.7 / 23.1	26.5 / 32
Outdoor Unit	Unit Dimensions (W x H x D)	in	28.3 x 21.3 x 10.2	28.3 x 21.3 x 10.2	31.6 x 21.1 x 11.7
	Packing Dimensions (W x H x D)	in	33.5 x 24.4 x 14.6	33.5 x 24.4 x 14.6	36.2 x 24.4 x 15.8
	Net/Gross Weight	lb	59.5 / 68.3	60.6 / 69.4	88.2 / 97
Certifications			ETL/cETL/ AHRI Performance Certified 210/240		
Application Area		sq. ft.	350-400	450-550	700-1000

Continued product improvement is our goal at Klimaïre 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)





Eco Friendly



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

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