

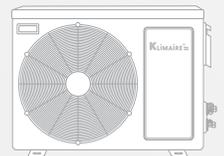
**K51A** 2018  
SERIES  
**17 SEER**



**KLIMAIRE**®  
Mark of Superior Quality

## NEW RESIDENTIAL LINE

- INVERTER TECHNOLOGY
- ENERGY SAVINGS
- ECO-FRIENDLY



## What Klimaire brings you ...

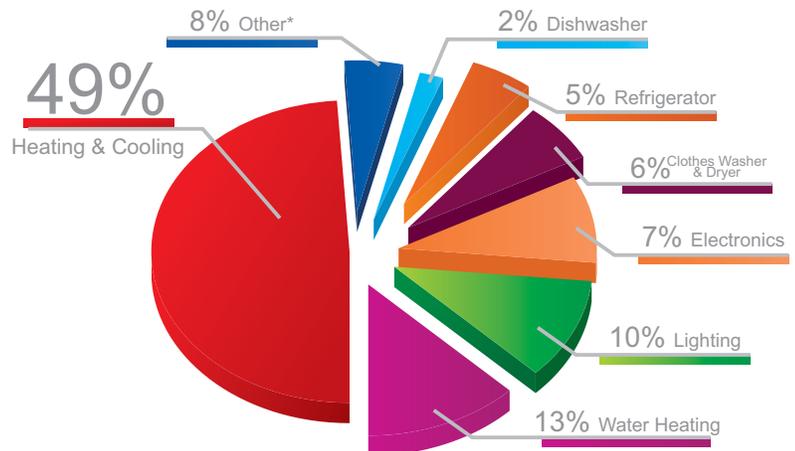
We have been in the Ductless Mini-Split business for over 25 years, Klimaire manufacturing maintains the highest standards of quality and reliability with ISO 9001 and ISO 14001a. Our products have proven their endurance and resiliency over time, operating in 70 different countries. All products are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



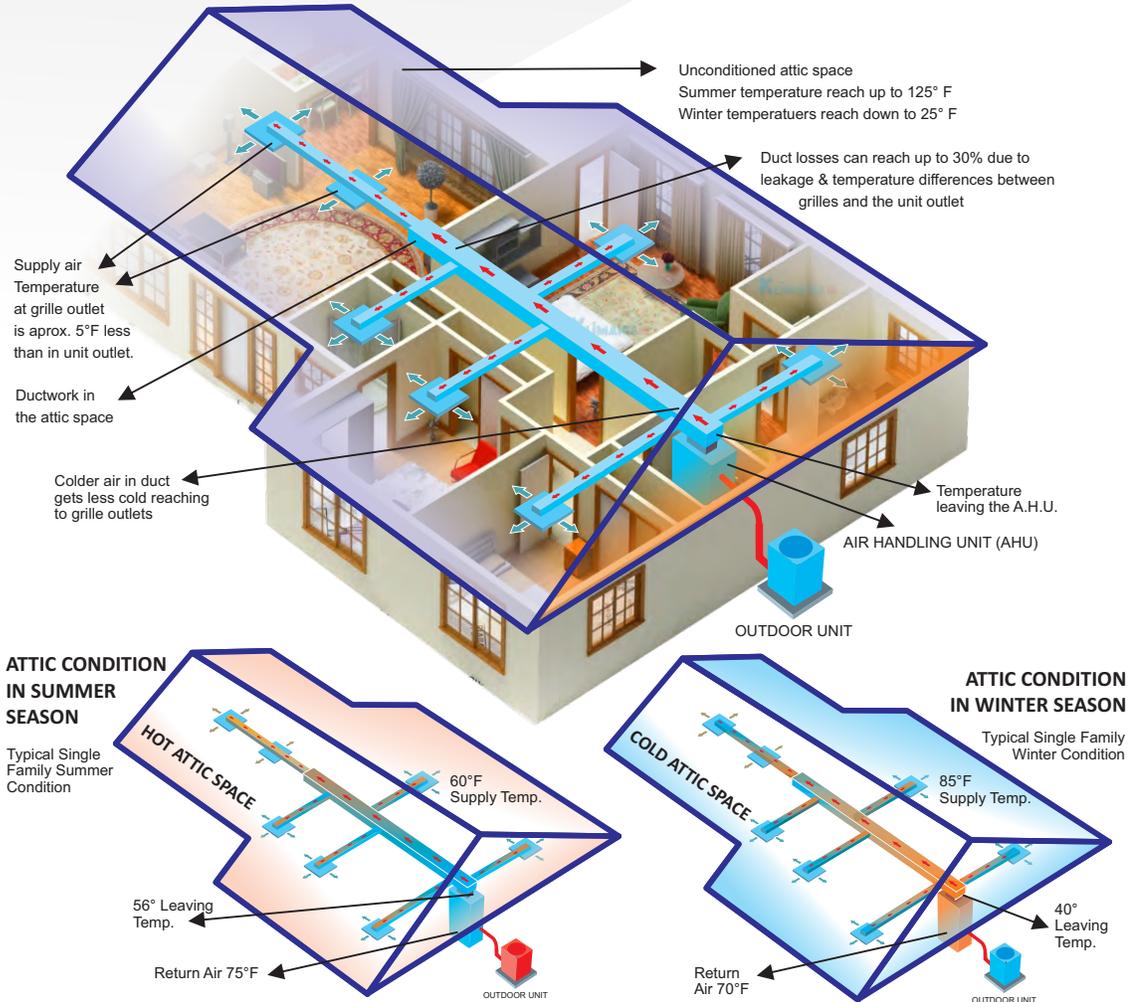
Klimaire **Invertech** DC Inverter - driven ductless air conditioners and heat pumps can save you up to 33% on your power utility bill when compared with room air conditioners or standard efficiency 10 SEER ductless systems. Ductless Invertech units are practical to install and preferred over traditional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

## Ducted vs Ductless Systems

According To the US Department of Energy (energy.gov) "Since mini splits have no ducts ,they avoid the energy losses associated with ductwork of central forced air systems. Duct losses can account for more than 30% of energy consumption for space conditioning especially if the ducts are in an unconditioned space such as attic."

- You'll save energy every time you use a Klimaire Ductless System.
- Air ducts from a central forced air system can lose energy more than 30%, with air leakage especially 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.
- Only one temperature control for all the zones, conflicting with individual comfort preferences

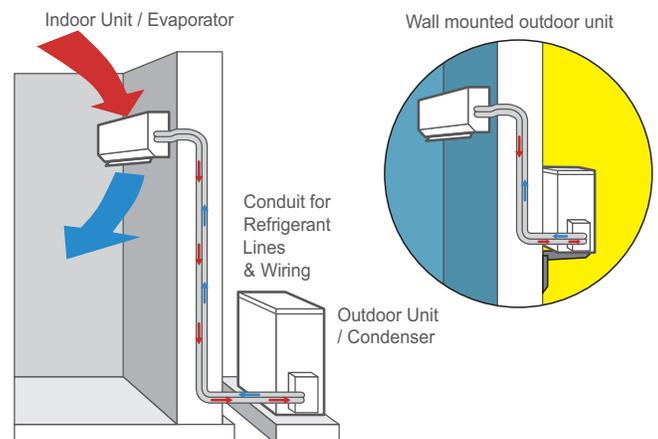
## Ducted Systems Vs Ductless Systems



**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.



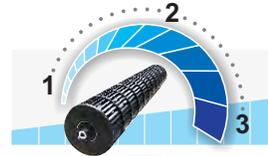
## Total Comfort

### Auto swing air swipe



Oscillating Louver Technology distribute air evenly throughout the room with horizontal auto swing function

### 3 fan speeds



Allow you to adjust the airflow precisely to the setting that gives you the greatest comfort

### Long range air discharge



Powerful and silent air flow thru larger fan diameter to reach every spot of your room

### Turbo mode



Turbo function enables the unit to reach the preset temperature at cooling or heating operation in the shortest time

### Super Quiet

- Low Noise Design
- Optimize air discharge vane
- Silent Mode

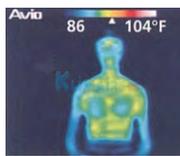
Max Decrease  
**3.5dB(A)**

Indoor fan run at an extra breeze



### Independent Humidity Control

#### Unique Comfort in Cooling & Heating



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

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 warmer supply air even at low outdoor ambient conditions as low as 5°F



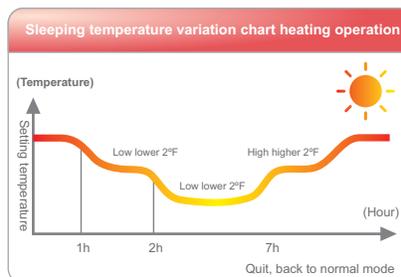
Dry mode function in remote

### Sleep Mode

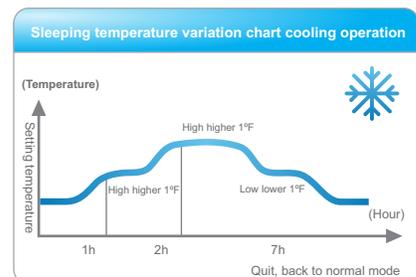
#### Deep SLEEP system

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.

#### Activated in Heat mode



#### Activated in Cool mode



## Anti-cold Air



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

## 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.

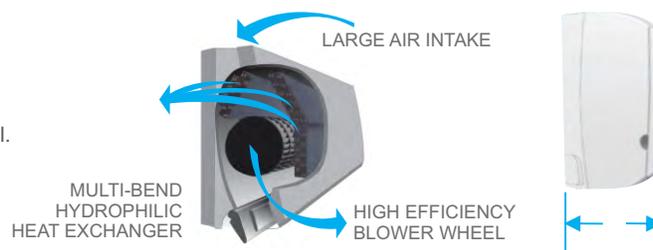
## Easy to mount & connect



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

## Thin & Slim design

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

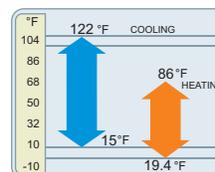


|               |         |
|---------------|---------|
| 9 and 12 kBtu | 11.4 in |
| 18 kBtu       | 12.4 in |
| 24 kBtu       | 13.2 in |
| 36 kBtu       | 14.4 in |

## Low ambient heating & cooling

KSIA series operates in cooling mode in the low winter ambient conditions down to 19.4° F when heating is necessary in spaces like server rooms, sun rooms & hydroponic labs.

The outdoor unit special design specialized sensors make possible to start and defrost the unit even when the outdoor temperature is as low as 19.4 °F.



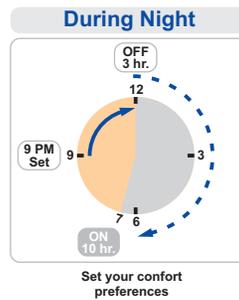
## Self Cleaning

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 cleans and dries the evaporator to prevent mildew growth and keep it fresh for next operation.



## ON / OFF 24 hr. Programmable Timer

Timer can be set On / Off easily 24 hours in half hour increments using the wireless remote control



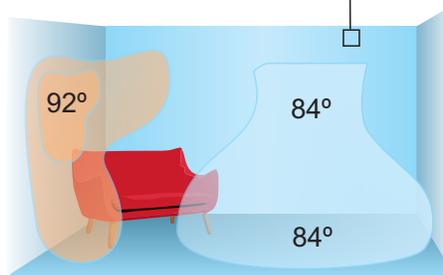
### Remote Control



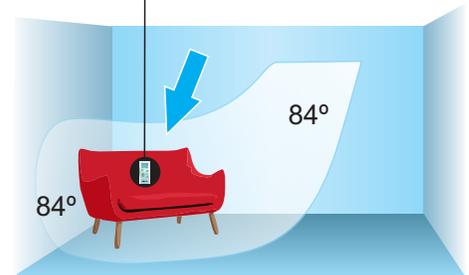
## i Feel

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.

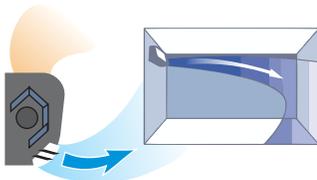
STANDARD SENSOR LOCATION



BUILT-IN SENSOR

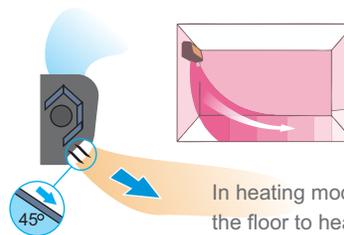


## Horizontal Flow



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.

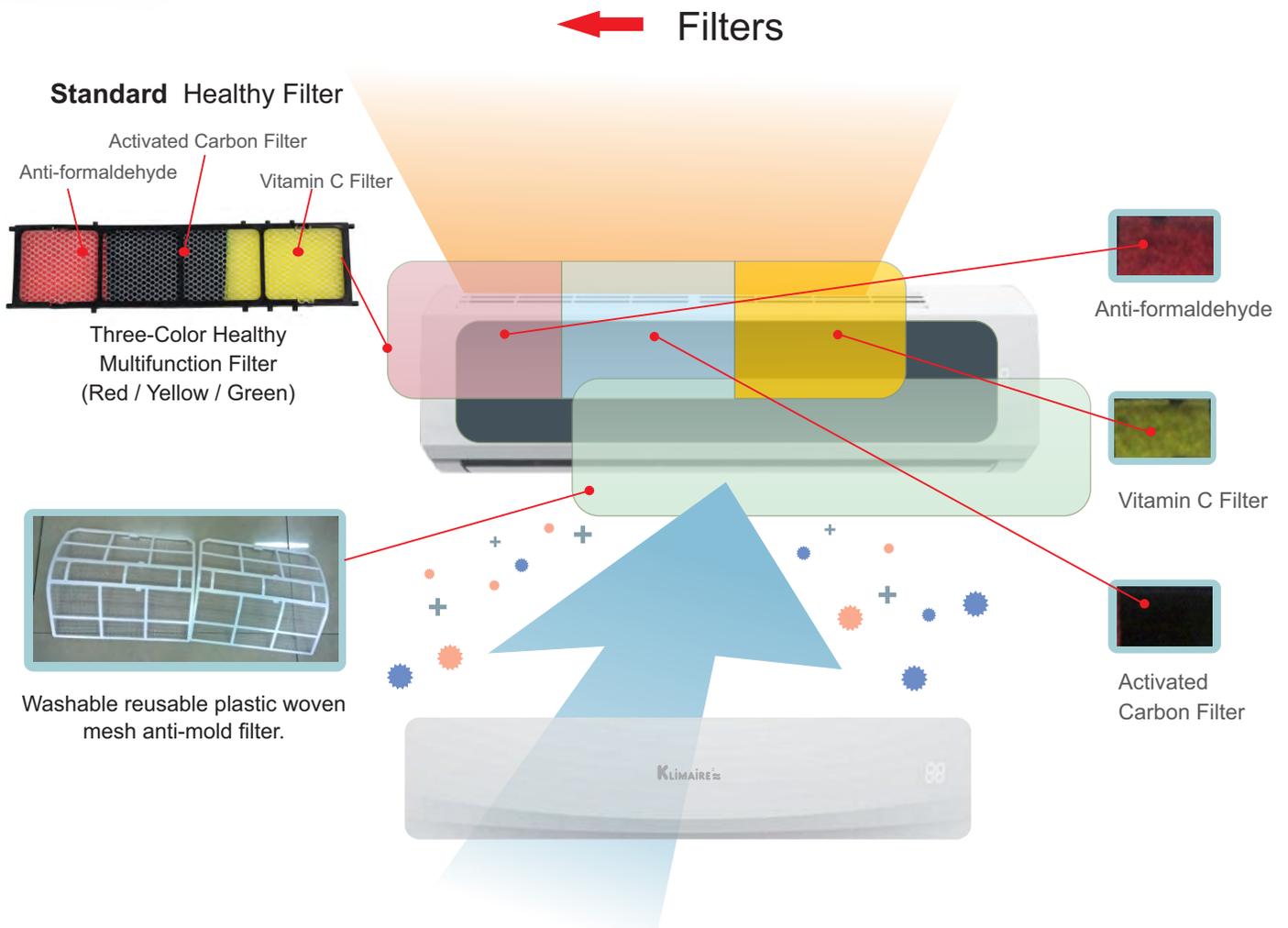
## Vertical Flow



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.

## Indoor Air Quality (Air Filtration)

Convenience to meet your needs  
Klimaïre Mini Splits make mor air changes over the coil in 24 hours than in a central air system.  
Therefore if does a better job filtering allergens.



Healthy Filter is capable to capture and filter the micro-dust and smog, absorb bad smells, decompose formaldehyde in the air and release Vitamin C to make the air cleaner & fresher.

## Overview

Klimaïre KSIA 17 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.

Klimaïre 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. Indoor Unit is factory pre-wired with 25 ft interconnecting stranded shielded power cable to facilitate installation.

## Health Functions



### 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

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



### Combo Filter

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

## Standard Features



Temperature Compensation



Combo Filter



Louver Position Memory



46°F Heating



Auto Defrosting



Self Diagnostic Service



3 Grades ID Fan Speed



Enhance base plate design  
For optimal condensate drainage to reduce ice build-up and keep efficiency high at low ambient temperature.

## 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.



### 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.



### Dry operation

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.



### 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.



### 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.

## Energy Saving

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



New construction and renovations



Homes and businesses



Single or multi family



Primary living areas



Rooms that are always too hot or too cold



Basements, attics, garages, additions

## ACCESSORIES (Optional)



Installation kits  
15 and 25 ft.



Wall  
Outdoor unit brackets



Pitch-roof  
Outdoor unit brackets

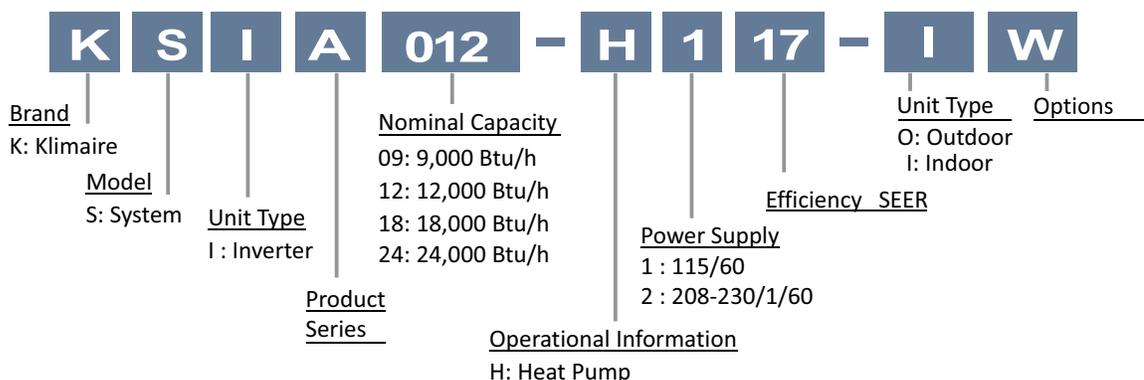


Mini Aqua Condensate  
Removal Pump



Wi-Fi Smart LCD  
controller  
9 - 36 Kbtu

## 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.

### 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.

### 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

to activate up/down swing; to fix position, press again.

### Anti-F 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.

### ELE.H

In HEAT mode turns on/off the electric heating (if available)

### ECO

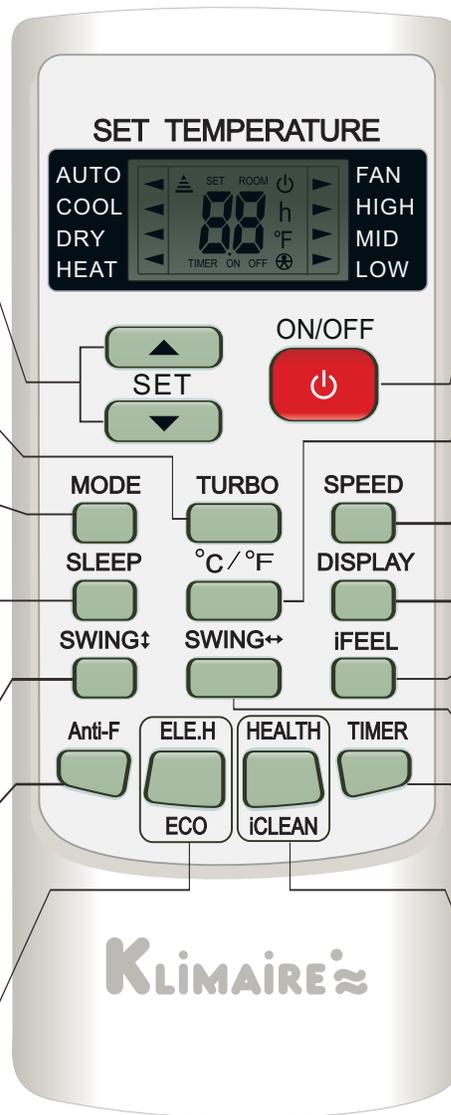
If press in COOL mode the unit enters ECO mode to save energy, exits after 8 hr. or by changing mode or turning of the controller

### HEALTH

press this button with the unit ON to activate the health-related functions

### iCLEAN

Press this button with the unit OFF to automatically clean dust off the evaporator and dry it.



### ON/OFF Button

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

### °C/ °F Button

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

### SPEED Button

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

### DISPLAY

Turns on/off the display

### iFEEL Button

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

### SWING ↔ Button

Activates left/right swing; to fix position, press again.

### TIMER Button

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

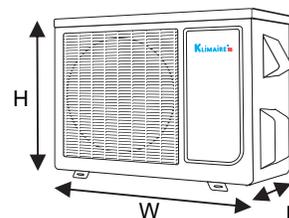
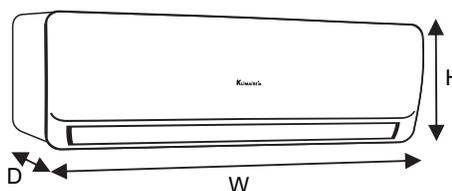
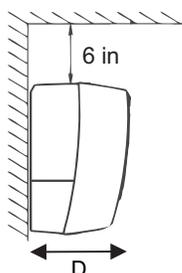
| Klimaïre Model Number               |  | KSIA009-H217-(S)                  | KSIA012-H117-(S) | KSIA012-H217-(S) | KSIA018-H217-(S) | KSIA024-H217-(S) | KSIA036-H216-(S) |                  |
|-------------------------------------|--|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                     |  | KSIA009-H217-I                    | KSIA012-H117-I   | KSIA012-H217-I   | KSIA018-H217-I   | KSIA024-H217-I   | KSIA036-H216-I   |                  |
|                                     |  | KSIA009-H217-O                    | KSIA012-H117-O   | KSIA012-H217-O   | KSIA018-H217-O   | KSIA024-H217-O   | KSIA036-H216-O   |                  |
| AHRI Certified Reference            |  | Number                            | 202022031        | 202022038        | 202022034        | 202022699        | 202022036        | 202022037        |
| Cooling                             | Rated Capacity                         | Btu/h                             | 9000             | 12000            | 12000            | 18000            | 23000            | 34000            |
|                                     | Min. - Max. rated capacity             | Btu/h                             | 3500 - 9800      | 4094-13300       | 4094-13300       | 5100-19100       | 6200 - 24500     | 7500 - 35000     |
|                                     | EER                                    | Btu/W                             | 9,6              | 9,9              | 8,5              | 9,3              | 8,6              | 8,5              |
|                                     | SEER                                   | Btu/W                             | 17               | 17               | 17               | 17               | 17               | 16,5             |
| Heating                             | Rated Capacity                         | Btu/h                             | 11000            | 12500            | 12300            | 18400            | 24000            | 34000            |
|                                     | Min. - Max. rated capacity             | Btu/h                             | 4000 - 11500     | 4000-13500       | 3600-14200       | 5000-20000       | 6200-25000       | 7500-36500       |
|                                     | COP                                    | Btu/W                             | 9,9              | 9,5              | 10               | 10,3             | 9,6              | 8,7              |
|                                     | HSPF                                   | Btu/W                             | 8,6              | 9                | 9                | 9                | 9                | 8,2              |
| Power Supply                        | Voltage                                | V-ph-Hz                           | 208 -230 -1 - 60 | 115 - 1 - 60     | 208 -230 -1 - 60 | 208 -230 -1 - 60 | 208 -230 -1 - 60 | 208 -230 -1 - 60 |
|                                     | Cooling Power input                    | W                                 | 852              | 1200             | 1400             | 1800             | 2400             | 4040             |
|                                     | Rated Current - Cooling                | A                                 | 4                | 10,4             | 6,9              | 8,9              | 11,9             | 16,5             |
|                                     | Heating Power Input                    | W                                 | 950              | 1100             | 1100             | 1700             | 2200             | 3800             |
|                                     | Rated Current - Heating                | A                                 | 4,7              | 9,6              | 5,4              | 8,4              | 10,9             | 15,5             |
|                                     | Minimum Circuit Ampacity - MCA         | A                                 | 15               | 17               | 7,9              | 9,5              | 11,4             | 25               |
|                                     | Max Overload Circuit Protection - MOCP | A                                 | 15               | 25               | 15               | 20               | 25               | 35               |
|                                     | Power Interconnecting Wiring           | No x AWG                          | 4 x 18           |
| Operation Temperature               | Cooling Operation Range                | °F (DB)                           | 50 -125.6        | 50 -125.6        | 50 -125.6        | 50 -125.6        | 50 -125.6        | 50 -125.6        |
|                                     | Heating Operation Range                | °F (WB)                           | 5 - 104          | 5 - 104          | 5 - 104          | 5 - 104          | 5 - 104          | 5 - 104          |
|                                     | Indoor Cooling Operation Range         | °F (WB)                           | 53 - 75          | 53 - 75          | 53 - 75          | 53 - 75          | 53 - 75          | 53 - 75          |
|                                     | Indoor Heating Operation Range         | °F (DB)                           | 60 - 86          | 60 - 86          | 60 - 86          | 60 - 86          | 60 - 86          | 60 - 86          |
|                                     | Indoor Cooling Set Temperature Range   | °F                                | 62 - 90          | 62 - 90          | 62 - 90          | 62 - 90          | 62 - 90          | 62 - 90          |
|                                     | Indoor Heating Set Temperature Range   | °F                                | 32 - 86          | 32 - 86          | 32 - 86          | 32 - 86          | 32 - 86          | 32 - 86          |
| Unit Data                           | Indoor Unit Air Flow (Max /Hi/Me/Lo)   | cfm                               | 265/212/159      | 318/241/176      | 318/241/176      | 424/341/200      | 565/447/341      | 853/647/471      |
|                                     | Dehumidification                       | pts/h                             | 2,3              | 2,6              | 2,6              | 3,9              | 5,5              | 8,1              |
|                                     | Compressor                             | Type                              | Rotary           | Rotary           | Rotary           | Rotary           | Rotary           | Rotary           |
|                                     | Refrigerant                            | Type                              | R-410A           | R-410A           | R-410A           | R-410A           | R-410A           | R-410A           |
| Sound Pressure                      | Indoor (Hi/Me/Lo)                      | dB(A)                             | 42               | 42               | 42               | 46               | 49               | 53               |
|                                     | Outdoor Max.                           | dB(A)                             | 51               | 50               | 52               | 53               | 55               | 60               |
| Dimensions                          | Indoor Unit (WxDxH)                    | in                                | 30*11.4*8        | 34*12*7.92       | 30*11.4*8        | 36*12.4*8.92     | 43.28*13.2*8.92  | 50*14.4*10.12    |
|                                     | Indoor Unit Packing (WxDxH)            | in                                | 32.8*13.88*11.08 | 36.8*14.8*11.68  | 32.8*13.88*11.08 | 38.8*15.28*12.08 | 46.2*15.88*12.48 | 53.6*17.8*14.2   |
|                                     | Outdoor Unit (WxDxH)                   | in                                | 28.8*21.6*10.4   | 29.2*21.8*11.4   | 28.8*21.6*10.4   | 32.08*21.4*11.92 | 33*26.2*12.4     | 36*28*14         |
|                                     | Outdoor Unit Packing (WxDxH)           | in                                | 34*14.8*24.8     | 34*24.8*14.8     | 34*14.8*24.8     | 36.28*15.28*24   | 37.8*17.4*29     | 34*14.8*24.8     |
| Weight                              | Indoor Unit Net/Gross Weight           | lbs.                              | 17,6             | 23,1             | 17,6             | 26,4             | 30,8             | 39,6             |
|                                     | Outdoor Unit Net/Gross Weight          | lbs.                              | 60,5             | 61,6             | 61,6             | 88               | 93,5             | 112,2            |
| Refrigerant Piping                  | Liquid Line                            | in                                | 1/4              | 1/4              | 1/4              | 1/4              | 1/4              | 3/8              |
|                                     | Suction Line                           | in                                | 3/8              | 1/2              | 1/2              | 1/2              | 5/8              | 5/8              |
|                                     | Pipe Length (Min./Max.)                | ft                                | 11.5/82          | 11.5/82          | 11.5/82          | 11.5/98          | 11.5/98          | 11.5/190         |
|                                     | Max. Pipe Elevation                    | ft                                | 49,2             | 49,2             | 49,2             | 65,5             | 65,5             | 65,5             |
|                                     | Pre-charge Pipe Length                 | ft                                | 24.6             | 24.6             | 24.6             | 24.6             | 24.6             | 24.6             |
|                                     | Additional Refrigerant                 | oz/ft                             | 0,71             | 0,88             | 0,88             | 1,06             | 1,41             | 1,41             |
|                                     | Drain (OD)                             | in                                | 11/16            | 11/16            | 11/16            | 11/16            | 11/16            | 11/16            |
| Controller - Wireless remote        | Supplied                               | H102                              | H102             | H102             | H102             | H102             | H102             |                  |
| Application Area (cooling standard) | sq.ft                                  | 350-400                           | 450-550          | 450-550          | 700-1000         | 900-1500         | 1.800-2.400      |                  |
| Limited Warranty                    |  | 5 Years compressor, 1 year parts. |                  |                  |                  |                  |                  |                  |

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)



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