

# KSIQ *DO IT YOURSELF SERIES*

*Do it Quick  
Do it Easy  
Do it for Less*



*Ultimate Cooling and Heating Solution*



Ductless Split Comfort Systems

**NEW RESIDENTIAL LINE**  
*Home owner's preferred choice*

- QUICK CONNECT
- PRE-CHARGED



**KLIMAIRE**  
Mark of Superior Quality

## What Klimaire brings you ...

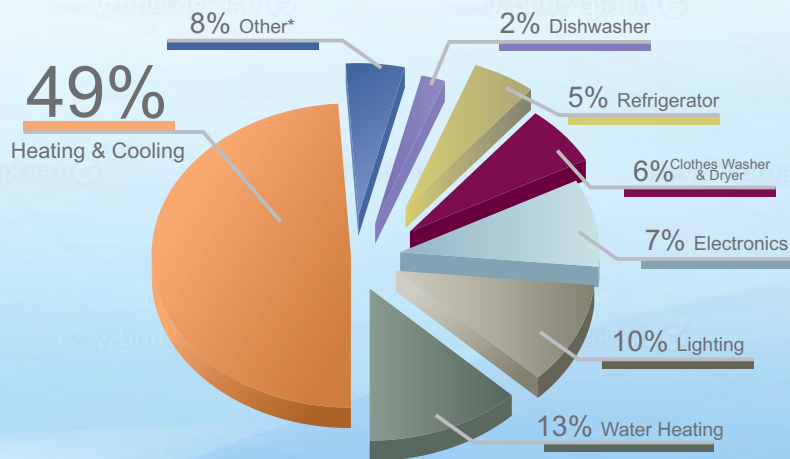
We have been in the Ductless Mini-Split business for over 25 years, Klimaire manufacturing maintains the highest standards of quality and reliability with ISO 9001 and ISO 14001a. Our products have proven their endurance and resiliency over time, operating in 70 different countries. All products are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

Total savings can reach up to 49% when heat pump technology is combined with an inverter system.



## What is Klimaïre DC Inverter?

DC INVERTER  
TECHNOLOGY

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

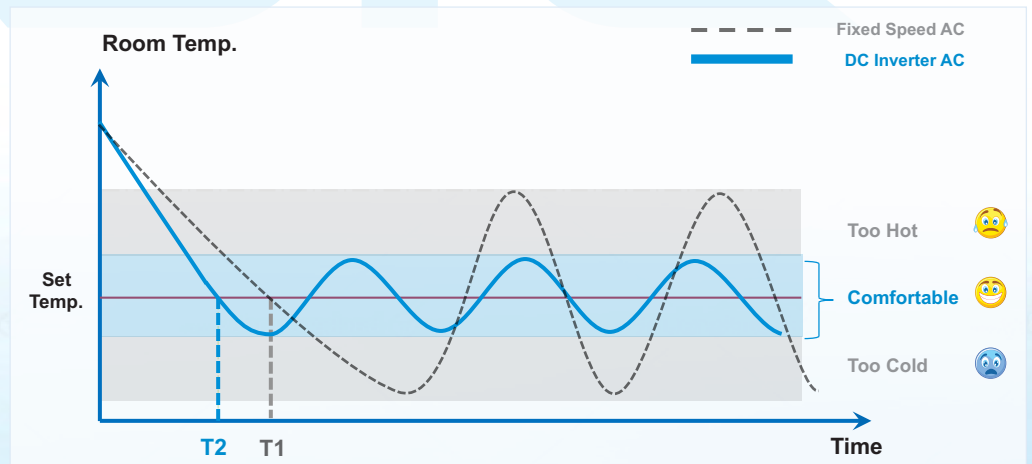
Klimaïre Inverter control systems use Pulse Amplitude Modulation (PAM) that is the most advanced and energy efficient method of inverting the current.

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

Therefore, unlike conventional split Air Conditioners/Heat Pumps which cycle between on and off repeatedly, the DC Inverter control system will monitor the room temperature and adjust the compressor speed automatically. Conventional compressors turn on and off to maintain the room temperature at desired level. This will result compressor to draw tremendous energy each time it starts up. This will also reduce the life-span of the compressor and other components that are turning on and off.

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

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



## The higher the efficiency, the higher your savings

You'll save energy everytime you use a Klimaïre 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 Klimaïre Ductless Systems have no ducts, they avoid that energy loss completely, reducing your impact on the environment and lowering your energy costs.

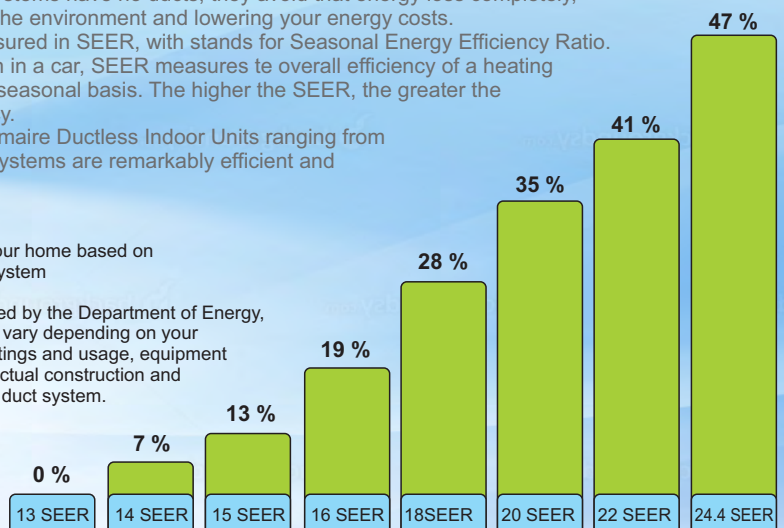
System efficiency is measured in SEER, with stands for Seasonal Energy Efficiency Ratio.

Similar to miles per gallon in a car, SEER measures the 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 Klimaïre Ductless Indoor Units ranging from 14 to 24.4, our ductless systems are remarkably efficient and environmentally friendly.

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

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



Applications are everywhere...

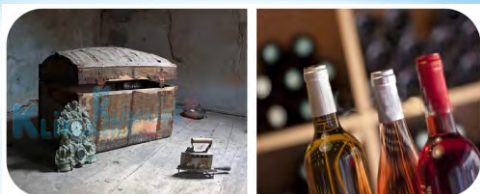
Ductless Mini-splits have flexibility to fit virtually any application

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



#### Smart Heating and Cooling

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



#### Condition the storage

Heating and cooling your garage helps to maintain low humidity prevents mildew and keep reasonable winter temperatures. Your stored goods are in perfect conditions for years.

#### Indoor Climate Changer

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



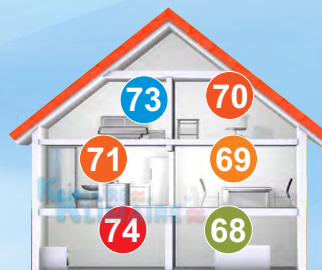
#### Auxiliary Cooling

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



#### EZ Supplemental Capacity

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



#### Individual Comfort and Temperature Control

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



## Revolutionary Quick Connect Ductless Mini-Split System

Klimaïre KSIQ series is the ultimate addition to its line-up of ductless mini split air conditioners and heat pumps with its extraordinary DIY characteristics, that make it an excellent choice for the home owners looking to air condition an existing room or new addition to their home by installing the latest design in mini split air conditioning and heat pump equipment highly efficient, economical and much easier to install. Klimaïre DIY mini split systems are fitted with the revolutionary pre-charged refrigerant quick-connect tubes and pre-connected communication wiring with polarized plugs which make easier for the home owner to install it without needing custom tools or hiring costly certified HVAC technicians, plus the convenience of controlling it using our cloud App to keep control of the ambient of your room and of your budget avoiding unnecessary power consumption. Our DIY quick-connect units are AHRI certified and available in four different sizes, 12,000 Btu/h, 18,000 Btu/h, 24,000 Btu/h and 36,000 Btu/h to match the requirements of your room.

## OUTDOOR UNIT

Optional Outdoor  
Installation



Outdoor Unit  
Wall Bracket



## INDOOR UNIT

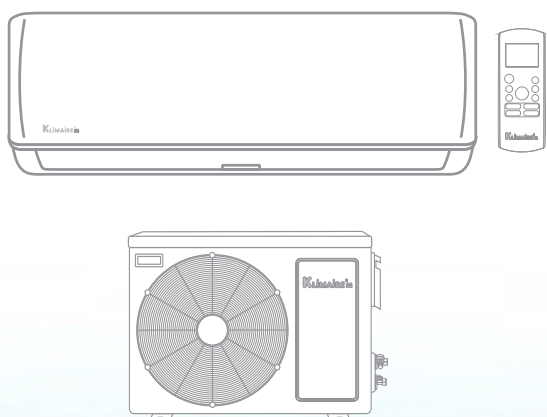
### Quick Connect Refrigerant Tubing Installation



- Factory Installed flexible refrigerant lines on the Indoor unit side
- Pre-wired Interconnecting cable for indoor unit side
- Polarized plug for easy interconnection cable
- Quick connect & fully flexible pre-charged refrigerant lines



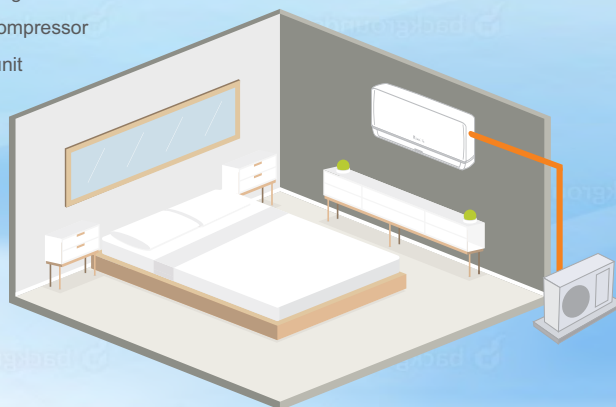
## Ductless Mini-split



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

## Refrigerant Leakage Detection

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



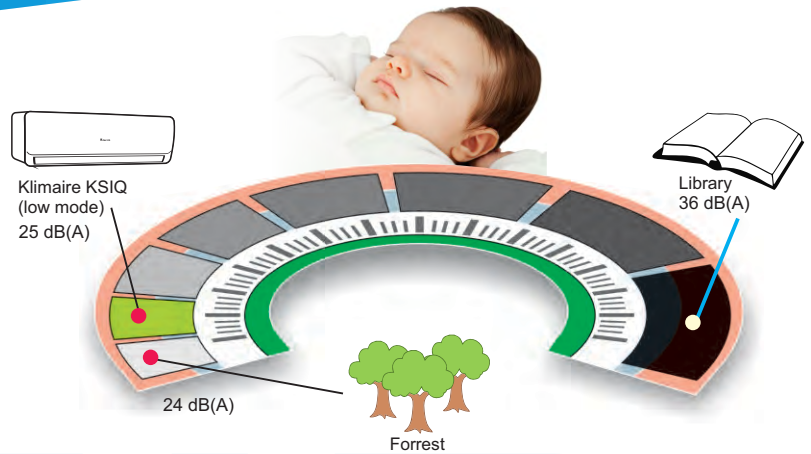


## Quiet Operation

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

Max Decrease  
3.5dB(A)

Indoor fan run at an  
extra breeze

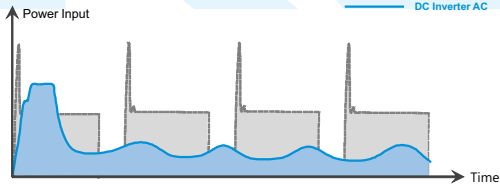


## Energy Savings

Save  
26%

- Inverter Saving

Every year you will save **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](https://www.ahridirectory.org) for detail

## Indoor Air Quality Self Cleaning



Your Klimaire KSIQ series equipped 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



## Reliability

### Base Pan Heater



Prevents defrost condensation from freezing ensuring proper defrost drainage during heating season

### Compressor Heater



Ensures Compressor longevity and reliability

### TwinCam

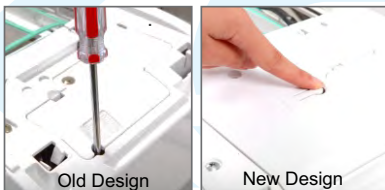


A high performance double cam twin rotary compressor increases the performance, reliability and durability

## Service Friendly

### \* Emergency Function Using

- Manual Switch Button
- ✓ Easy to turn on/off without a tool.
- Emergency Using Function
- ✓ Smartly detecting errors, your unit **keep running** when in urgent need



## Easy Installation



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



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



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

## Control

Wireless Control (Standard)



Wired Control (Optional)



KJR-12B

## Quick Connect & full flexible

refrigerant tubing





## Interactive display

When I show these codes on the display, that means ...



✓ I'm defrosting.



✓ I'm dirty, please clean my filters up



✓ My filters are too old, please change new ones for me.

When you press any function button

**Turbo**



✓ That means you switch "Turbo Mode" on



✓ That means you switch "Turbo Mode" off



## Comfort Features



### Turbo mode

To bring the room quickly to the desired temperature, the air conditioner maximizes the cooling or heating output capacity by operating the fan at very high speed to attain the set temperature in the shortest time.



### Auto level swing

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



### 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.



### Air direction

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



### 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.



### Anti-cold air

(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.



### 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 compressor to avoid overcooling the rooms.



### 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.

## Standard Features



Auto Restart Function



12 Grades Indoor Fan Speeds



Turbo Mode



Self Clean Operation



Follow Me



Self-diagnosis and Auto-protection



Auto Defrosting



Emergency Using Function



Refrigerant Leakage Detect



Low Ambient Cooling \*\*



Anti-cold Air Function



Louver Position Memory Function



Manual Switch Button



Fire-proof Electric Box



Auto Swing



Two-directional Airflow



Timer



High Density Filter

\*\* Except for 9K  
24k non-estar models.

## KSIQ Product Code

**K S I Q 012 - H 2 20 - O**

Brand  
K: Klimaire

Model  
S: System

Unit Type  
I: Inverter

Product Series

Nominal Capacity  
12: 12,000 Btu/h  
18: 18,000 Btu/h  
24: 24,000 Btu/h  
36: 36,000 Btu/h

Operational Information  
H: Heat Pump

Power Supply  
1: 115/60  
2: 208-230/1/60

Efficiency SEER

Unit Type  
O: Outdoor  
I: Indoor



## Remote Control

### 1 ON/OFF Button

This button turns the air conditioner ON and OFF.

### 2 MODE Button

Press this button to modify the air conditioner mode in a sequence of following:

→ AUTO → COOL → DRY → HEAT → FAN

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

### 3 FAN Button

Used to select the fan speed in four steps:

→ AUTO → LOW → MED → HIGH

**NOTE:** You can not switch the fan speed in AUTO or DRY mode.

### 4 SLEEP Button

- Active/Disable sleep function. It can maintain the most comfortable temperature and save energy. This function is available on COOL, HEAT or AUTO mode only.
- For the detail, see "sleep operation" in "USER'S MANUAL".

**NOTE:** While the unit is running under SLEEP mode, it would be cancelled if MODE, FAN SPEED or ON/OFF button is pressed.

### 5 TURBO Button

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

### 6 SELF CLEAN Button

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

### 7 UP Button (▲)

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

### 8 DOWN Button (▼)

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

**NOTE:** Temperature control is not available in Fan mode.

**NOTE:** Press and hold UP and DOWN buttons together for 3 seconds will alternate the temperature display between the °C & °F scale.

### 9 SILENCE/FP Button

- Active/Disable SILENCE function. If pushing more than 2 seconds, the "FP" function will be activated, pushing more than 2 seconds again to disable.

- When the Silence function is activated, the compressor will operate at low frequency and the indoor unit will bring faint breeze, which will reduce the noise to the lowest level and create a quiet and comfortable room for you. Due to low frequency operation of compressor, it may result in insufficient cooling and heating capacity.

- Activates/Disables freeze protection "FP" or HOME-AWAY function. It can only be activated during the heating operation. (only when the setting mode is HEAT). The unit will operate at high fan speed with the temperature automatically set to 46 F. The display window of indoor unit will display FP. For the unit without display area, the Defrost indicator light will be keeping on for 2 seconds. Keeps the room over freezing temperature.

### 10 TIMER ON Button

Press this button to initiate the auto-on time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10.0, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-on time to 0.0.

### 11 TIMER OFF Button

Press this button to initiate the auto-off time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10.0, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, simply adjust the auto-off time to 0.0.

### 12 SWING Button

Used to stop or start horizontal louver auto swing feature.

### 13 DIRECT Button

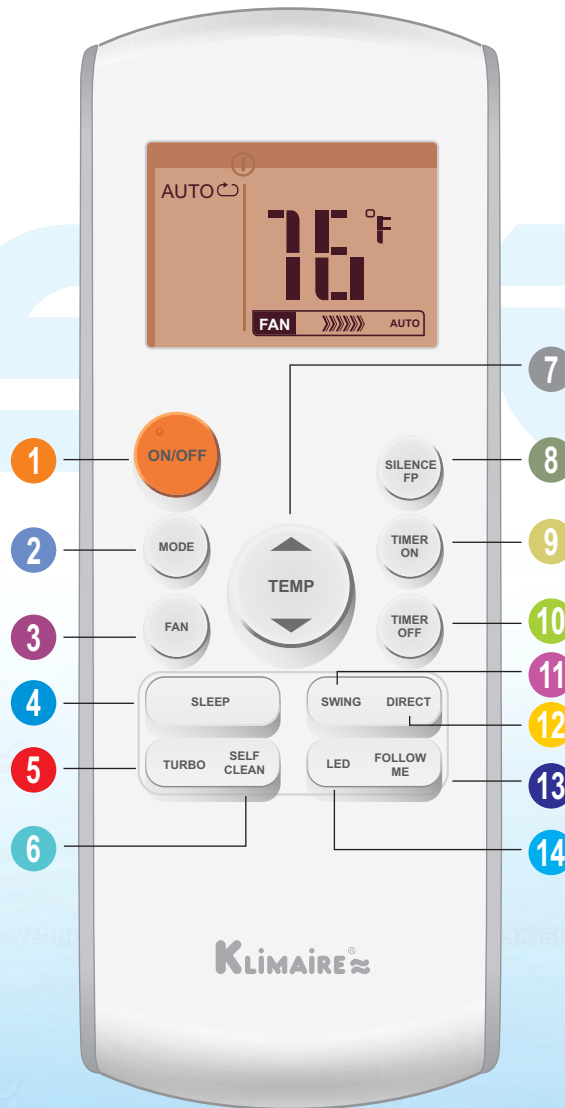
Used to change the louver movement and set the desired up/down air flow direction. The louver changes 6° angle for each press.

### 14 FOLLOW ME Button

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

### 15 LED Button

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



## 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.



**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



Cloud System



From Everywhere



Standard Wi-Fi  
b/g/n router

### Accessories



115 - 230 V

Condensate Drain  
Mini-Pumps

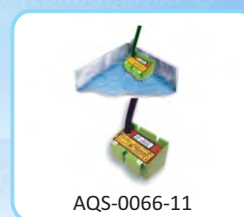


WAFB21

Outdoor unit wall brackets



WAFF21



AQS-0066-11

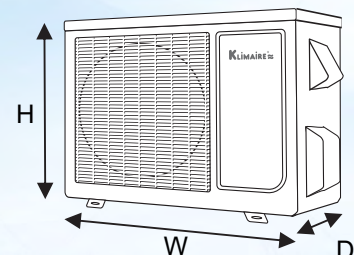
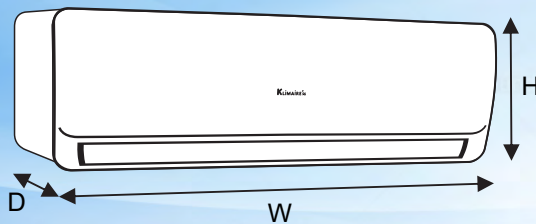
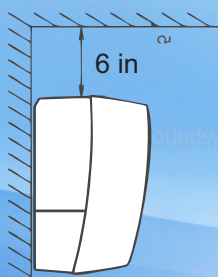
Aqua Over-Flow Switch



Indoor			KSIQ012-H118-IW	KSIQ018-H216-IW	KSIQ024-H216-IW	KSIQ036-H216-I
Outdoor			KSIQ012-H118-O	KSIQ018-H216-O	KSIQ024-H216-O	KSIQ036-H216-O
Power supply	V/ph/Hz		115V / 1ph / 60Hz	208-230V / 1ph / 60Hz	208-230V / 1ph / 60Hz	208-230V / 1ph / 60Hz
Cooling	Capacity	Btu/h	12000	18000	24000	34500
	Input	W	1200	2000	2665	4207
	Rated current	A	10,6	8,9	11,7	18,3
	EER	Btu/w	10	9	9	8,2
	SEER	Btu/w	17,5	16	16	16
Heating	Capacity	Btu/h	12000	18000	25000	36000
	Input	W	1150	1860	2580	3870
	Rated current	A	10,2	8,2	11,4	17,2
	COP	W/W	3,06	2,84	2,84	2,73
	HSPF4	Btu/w	8,8	9,5	9	9
Minimum Circuit Ampacity - MCA	A	15	15	15	25	
Maximum Fuse Size	MCOP	A	20	20	25	35
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Capacity	Btu/h	10014	13836	24344	25760
	Input	W	748	1035	1970	2070
	Rated current(RLA)	A	9	10,5	12	17
	Refrigerant oil/oil charge	ml	ESTER OIL VG74-370	VG74/450	ESTER OIL VG74/670	ESTER OIL VG74/670
Indoor fan motor	Input	W	25	36	58 (Output)	58 (Output)
	RLA	A	0,2	0,3	0,4	0,5
	Speed(Hi/Mi/Lo)	rpm	1050/850/650	1100/800/700	1100/900/700	1200/1050/750
	Indoor air flow (Hi/Mi/Lo)	cfm	276/206/147	412/265/224	589/459/335	824/589/412
Indoor noise level (Hi/Mi/Lo)	dB(A)	38/35/25	44/38/27	48/42/32	52/45/35	
Indoor unit	Dimension(W*D*H)	in	31.57x7.44x11.69	37.99x8.46x12.56	42.52x8.90x13.19	49.57x11.10x14.25
	Packing (W*D*H)	in	39.76x14.96x15.94	46.46x16.14x15.55	52.17x17.91x16.73	59.25x18.90x18.11
	Net/Gross weight	lb	37.9/48.5	43.2/47.4	50/65.7	61.7/83.6
	Model		YKT-32-6-202L	YKT-48-6-206	YKT-63-6-200L	ZKFN-120-8-2
Outdoor fan motor	Input	W	80.2/69.4	103.8/86.5	136/130	150
	RLA	A	0,7	0,6	0,6	0,6
	LRA	A	0,85	0,612	0,9	N/A
	Winding Resistance	Ω	60/93.5	152/142	88.5/138	N/A
	Capacitor	uF	6uF/450V	2.5uF/450V	2.5uF/450V	N/A
	Speed	rpm	850 / -- /730	880 / -- /690	930/-/830	810
Outdoor air flow	cfm	1120	1470	1590	2943	
Outdoor noise level	dB(A)	54	57	57,5	60	
Outdoor unit	Dimension(W*D*H)	inch	30.31x11.81x21.85	31.50x13.11x21.81	33.27x14.29x27.64	37.24/16.14/31.89
	Packing (W*D*H)	inch	35.43x13.58x23.03	36.22x15.35x24.21	38.00x15.55x29.72	42.91x19.69x34.45
	Net/Gross weight	lbs.	69.4/85.8	87.7/93.7	115.1/122.1	145.5/158.1
Refrigerant type	oz	R410A/31.7	R410A/43.4	R410A/67.0	R410A/111.1	
Refrigerant precharge	ft	25	25	25	25	
Charge for additional ft	oz	0,161	0,161	0,322	0,322	
Design pressure	psig	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	in	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"
	Max. refrigerant pipe length	ft	25	25	25	25
	Max. difference in level	ft	25	25	25	25
Connection wiring / Stranded, unshielded	AWG x N°	16 x 4	16 x 4	16 x 4	16 x 4	
Thermostat type		Remote Control	Remote Control	Remote Control	Remote Control	
Operation temperature	Indoor (cooling/ heating)	°F	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
Application area (cooling standard)	sq ft	450-550	700-1000	900-1500	1650-2400	

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

- 1 - Minimum 10 ft line set recommended.
- 2 - Outdoor unit being elevated than the indoor unit oil trap should be installed every 17 ft to 23 ft ( 5 to 7 m)



**KSIQ**  
SERIES



Eco Friendly



**KSIQ**



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

2190 NW 89th Place  
Doral, FL 33172 - USA  
e-mail: sales @klima.com  
www.klima.com

**KLIMAIRE**  
Mark of Superior Quality