



Feel the difference!
Experience the real Comfort

DC INVERTER
TECHNOLOGY

KLIMAIRE

ULTIMATE COOLING & HEATING SOLUTION





What Klimaire brings you . . .

We have been in Ductless mini-split business since 1989 and at Klimaire maintain the highest quality and reliability with ISO 9001 and ISO 14001 standards in our manufacturing facilities. Our products have proven their endurance and resiliency over time operating in 70 different countries since then. All products are ETL certified and AHRI registered.

Klimaire products exceed industry standards for energy efficiency and employs innovative technology to achieve the highest customer satisfaction. Since our goal is to achieve maximum customer satisfaction, we continuously seek to achieve in the design phase of our future units higher performance levels.

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 role of their popularity.

Klimaire ductless systems are simple, reliable, and easy to install as well as affordable. Klimaire slim single zone and multi zone ductless systems offer built-in solution with duct free technology benefits. These systems are integrated with innovative inverter technology providing individual comfort and control. We are committed to bring you real comfort with our series to our valuable customers where you Like it, when you Like it and how you Like it.

Ductless Split Multi-zone

Experience the true individual comfort.

Ductless mini-split systems are perfect solution to variety of installation challenges, allowing installers the ability to place ductless mini-split units in locations that were previously impractical or impossible. They are ideal when additional ductwork is necessary but not cost effectively. Basically Ductless mini-split units eliminate the use of ductwork.

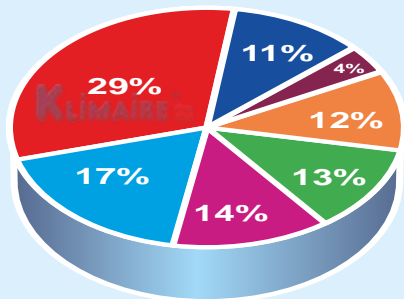
In addition to eliminating the need for ducting, one of the other great advantages of ductless multi-split systems is true zone control. Each indoor fan coil unit is dedicated to the room being conditioned allowing a temperature and humidity level to be kept different from the rest of the house or the building. It has never been easier or more cost effective to cool and heat multiple rooms from a single outdoor unit.

The most advantage of the multi zone system is once all indoor units in operation, cooling or heating, at the same time the system will limit the indoor unit capacity so that they will match with the outdoor unit capacity. When a zone meets the desired set temperature it requires less capacity. The unused capacity is then distributed to the remaining indoor units under operation, increasing their capacity. By rotating the capacity multi zone systems are preferred to increase diversity in heating and cooling loads for day and night operation.

The Smart Choice...

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 DC Inverter - driven ductless air conditioners and heat pumps can save you up to 33% in your power utility bill when compare with room air conditioners or standard efficiency 10 SEER ductless systems. Even up to 30% energy consumption savings can be achieved when ductless Invertech units are practical to install and preferred over traditional ducted central units. Total savings can reach up to 60% when the two options are combined.



Heating

Cooling

Water Heating

Appliances
(includes refrigerator, dishwasher, clothes washer and dryer)

Lighting

Electronics
(includes computer and monitor and TV and DVD player)

Other*
(includes external power adapters, telephony, set-top boxes, ceiling fans, vent fans and home audio)

Inverter Technology:

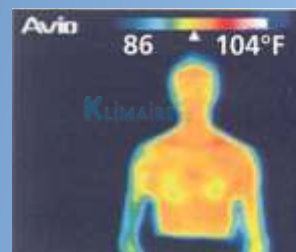
DC Inverter is a type of power conversion circuit that electronically regulates the voltage, current and frequency of a compressor or a motor. DC INVERTER-driven air conditioners and heat pumps bear special double cam, twin rotary variable speed compressor. Like a cruise control of a vehicle. Inverter technology varies the compressor speed based on cooling and heating needs in the space. Variable speed enables to precisely match system capacity to actual load. They can slow down or speed up based on demand load. By varying the speed of the compressor systems are able to better match load in heating and cooling. In multi zone inverter systems the indoor units constantly change capacity and electronically communicate with the Klimaire outdoor unit to increase or decrease capacity for optimum comfort and save energy. Therefore systems operate more efficiently at light load, while still being capable of increasing the speed to deliver full capacity when needed.

Since humidity is a major factor for comfort, in the summer, Klimaire DC INVERTER – 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



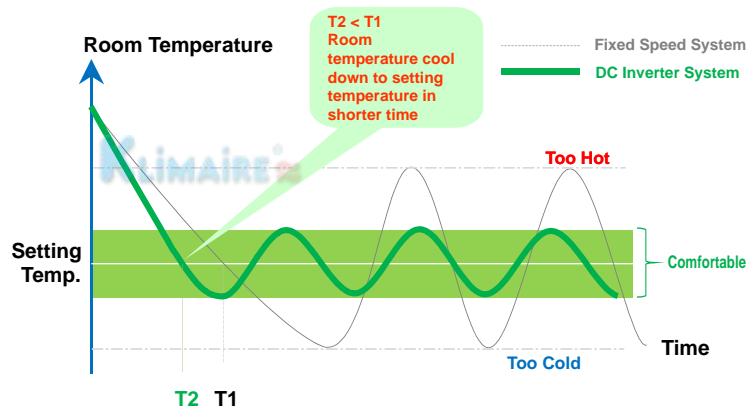
Room temperature 77°F
Humidity 80%

UNCOMFORTABLE
Hot and stuffy with high
humidity



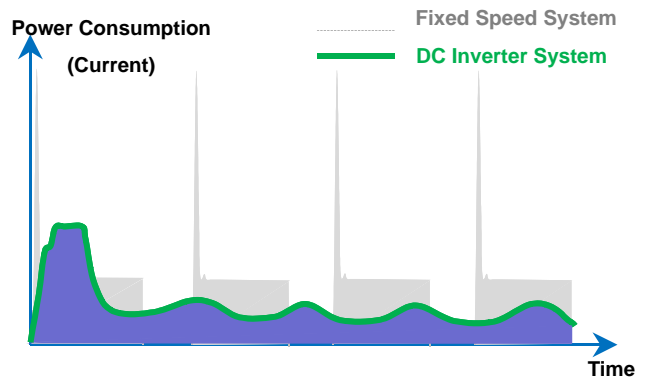
Klimaire DC Inverter Technology

Klimaire Inverttech DC inverter -driven air conditioners and heat pumps are the ultimate cooling and heating technology of the HVAC field. Klimaire DC Inverter Technology adopts the new advanced 180 Sine Wave DC inverter driven technology and brushless DC (BLDC) motor (variable revolution) twin cam compressor. This translates into more energy-savings and quieter operation than 120 Square- Wave DC inverter types. Result is more consistent temperature which translates into increased comfort and energy savings all year round.



DC Inverter 180 Sine Wave

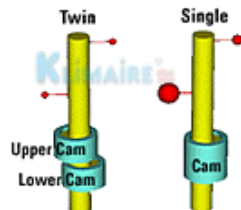
- 1-Wider frequency & voltage range
- 2-More Efficient & higher savings
- 3-Lower noise & reduced vibration for longer life
- 4-Improved reliable operation



Savings and advantages are even much more when you compare with traditional systems. They run at fixed speed and cycle on/off to match the load. This will result compressor to draw tremendous energy each time when it starts up. On/off cycling also reduces the life-span of the compressor and other components that cycle on/off.



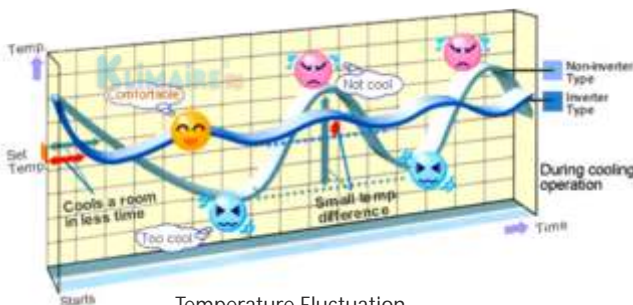
A high performance double cam twin rotary compressor increases the performance, reliability, and durability. Energy savings are much higher with this INVERTECH DC INVERTER - driven variable speed compressor.



The opposite double blade advanced design provides mechanical stability and less vibration that shall increase the life of compressor and other components in the outdoor unit.



Homeowners and neighbors enjoy quiet whisper breeze outdoor unit operation making sure nobody is disturbed.

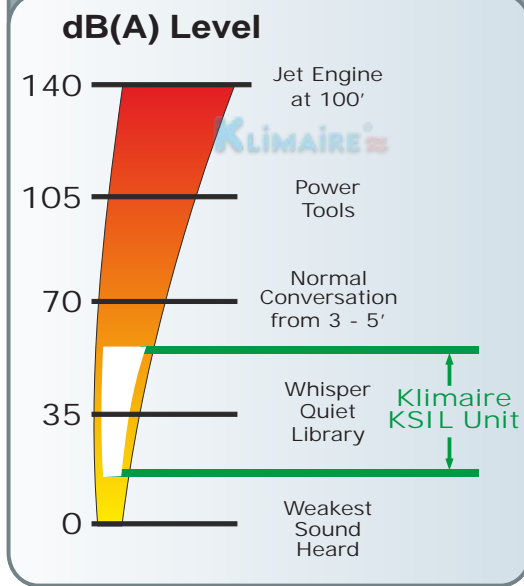


Temperature Fluctuation - INVERTECH System vs. On/off System

The temperature fluctuations are much higher in traditional (on/off cycling) systems compared to inverttech driven inverter systems, which effects human comfort.

Real comfort does not only depend on temperature. Dehumidification process, especially during hot sticky weather is essential and integral part of cooling and inverter systems are the more efficient way to remove moisture and control humidity level.

Noise Level



Flexible and Quiet

Like regular split air conditioning or heat pump systems, the condensing unit is installed outdoors allowing a peaceful and more comfortable interior environment.



Multi Zone Application

For maximum comfort throughout the entire house multi zone Invertech models are ideal to best match your room requirements when it is needed to condition more than one space. It is not necessary to use several separate systems. Klimaite 2, 3 or 4 zone systems can easily respond to your heating and cooling needs. Each indoor unit is independently controlled to meet your specific comfort preferences, and there are several models available in ductless and ducted type designed to be placed just about anywhere for any application for your home or your business.

Klimaite multi zone inverter models can provide the highest diversity design flexibility in your home for day and night operation. Klimaite offers three different multi zone systems – dual zone, tri zone, and quad zone – with different appearance to fit your own decor.



Design Flexibility up to 23 possible capacity combinations with six different indoor units.



Dual Zone

KSIM218-H221
Up to two indoor units

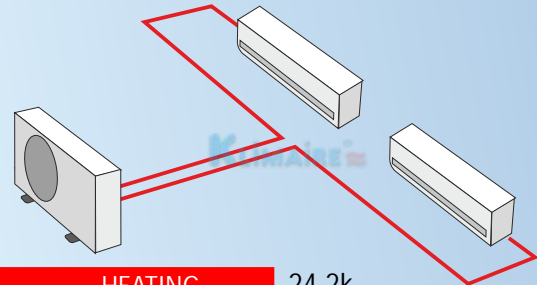
18 k COOLING

22.9k

19.0k

HEATING

24.2k



Triple Zone

KSIM330-H219
Up to three indoor units

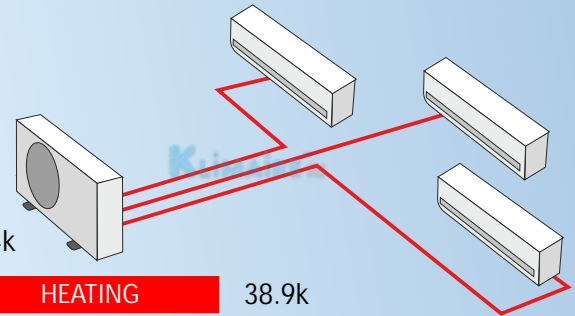
27.0k COOLING

36.4k

31.0k

HEATING

38.9k



Quad Zone

KSIM40912-H216
Up to four indoor units

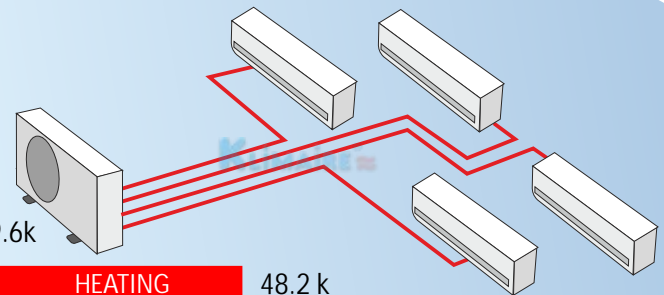
36.0k COOLING

49.6k

35.6k

HEATING

48.2k



Penta Zone

KSIM50912-H216
Up to four indoor units

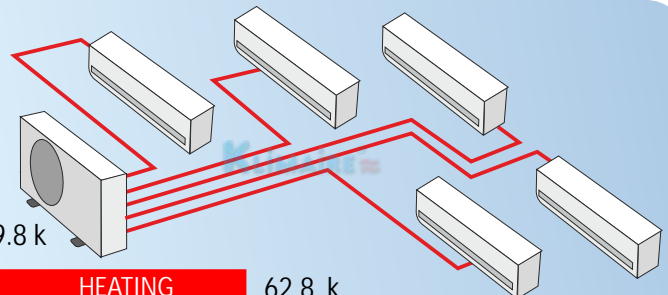
23.0k COOLING

59.8k

22.9k

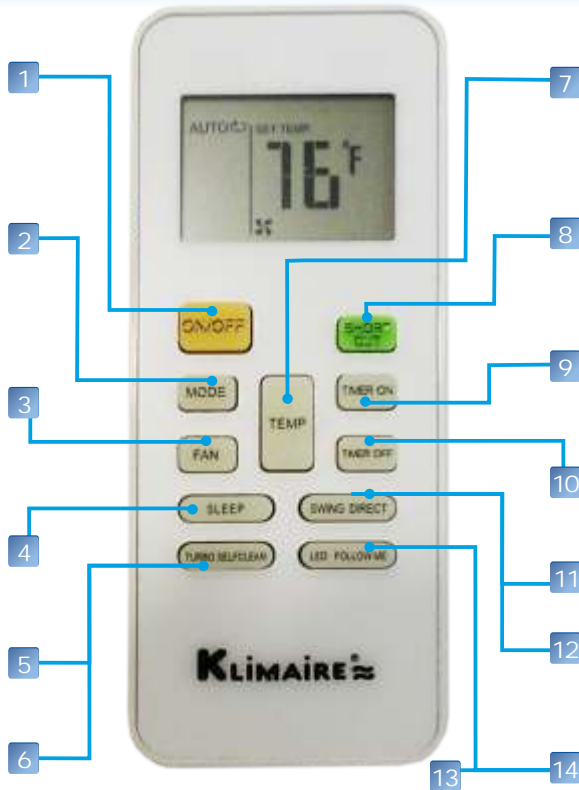
HEATING



62.8k




KWIO



This exceptionally quiet sleek & elegant model offers four different colored mirror-like finish front panels to match your décor, open electromechanically in quality built-in features.













- 1  **ON/OFF Button**
Operation starts when this button is pressed and stops when this button is pressed again.
- 2  **MODE Button**
Each time the button is pressed, the operation mode is selected in a sequence of following:

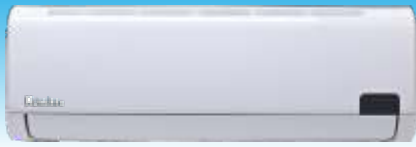
→ AUTO → COOL → DRY → HEAT → FAN →

NOTE: Please do not select HEAT mode if the machine you purchased is cooling only type. Heat mode is not supported by 0 the cooling only appliance.
- 3  **FAN Button**
Used to select the fan speed in four steps: r

→ AUTO → LOW → MED → HIGH →
- 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.
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 1°F increments to 86°F.
 **DOWN Button (v)**
Push this button to decrease the indoor temperature setting in 1°F increments to 62°F.
NOTE: Press and hold and buttons together for 3 seconds will alternate the temperature display between the °C & °F scale.
- 8  **SHORTCUT Button**
Used to restore the current settings or resume previous settings. On the first time connecting to the power, if push the SHORTCUT button, the unit will operate on AUTO mode, 80°F, and fan, speed is Auto.
 - Push this button when remote controller is on, the system will automatically revert back to the previous settings including operating mode, setting temperature, fan speed level and sleep feature (if activated). And transmit the signals .to the unit.
 - If push this button when remote controller is off, the system will only resume the previous settings and will not transmit the signals to the unit. And the sleep feature is disable.
 - If pushing more than 2 seconds, the system will automatically restore the current operation settings including operating mode, setting temperature, fan speed level and sleep feature(if activated).
- 9  **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, 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.
- 10  **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, 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
- 11  **DIRECT Button**
Used to change the louver movement and set 0 the desired up/down air flow direction. The louver changes 6° in angle for each press.
- 12  **SWING Button**
Used to stop or start horizontal louver auto swing feature.
- 13  **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.
- 14  **LED Button**
Disable/Active indoor screen Display. When pushing the button, the indoor screen display is cleared, press it again to light the display.

KWIL



The L series is one of the most efficient products in the Klimaire line up of inverter mini split air conditioners, exceptionally quiet as well, has a modern design and style that blends with your décor.

The L series is one of the most efficient products in the Klimaire line up of inverter mini split air conditioners, exceptionally quiet as well, has a modern design and style that blends with your décor.

- * Temperature compensation: depending on the installation height of the indoor unit, the temperature sensed by the sensor is always different than the floor temperature. Changing the jumping wire combination at the indoor PCB is possible to compensate this deviation on the field.
- * Auto-restart & memory function: if there is a power failure the air conditioner will automatically restart with the previous function setting after power restoration.
- * Low ambient operation: units can operate down to 5 °F in heating mode.
- * Carbon & electrostatic filter: IAQ indoor air quality improvement is made of active carbon and electrostatic fiber that eliminates cigarette smoke, pets and other unpleasant odors, and deactivates other harmful chemical gases. Electrostatic fiber filter traps small particles, dust, and per fur from the air stream to prevent allergic reactions

- * Air direction: since cold 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.
- * 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 technology prevents cold air blowing out at the beginning of the operation, avoiding discomfort to the user.



- * Sleep operation: enables the air conditioner to automatically increase (cooling) or decrease (heating) 1.8 °F per hour for the first two hours then keep it steady for the next 5 hours, and after that will turn off. This function maintains both comfort and energy savings in night operation.

- * Dry mode: the individual dehumidification mode efficiently helps to control humidity level when cooling may not be necessary.

- * Fan speed control: adjustable indoor fan control changes the fan speed to three different settings to accommodate user's needs. It also helps to control humidity level when cooling may not be necessary.

- * Timer: 24 hour energy saver timer to set personal comfort preferences and reduce energy consumption.

- * Turbo: the air conditioner will maximize the output of cooling or heating operation making the room cool down or heat up rapidly, and attain the desire temperature in the shortest time.

- * Swing: when it is activated the horizontal louvers oscillate up and down continuously or a preferred air direction can be selected.

- * LCD display: activates the LCD display on the unit.

- * Temperature setting: sets the room temperature up or down 1 °F at a time.



Respected for its reliability Desired for its all season performance

Energy Savings – Reduction of up to 60% in energy consumption can be achieved in comparison to 10 SEER units, which will reduce the utility bill.

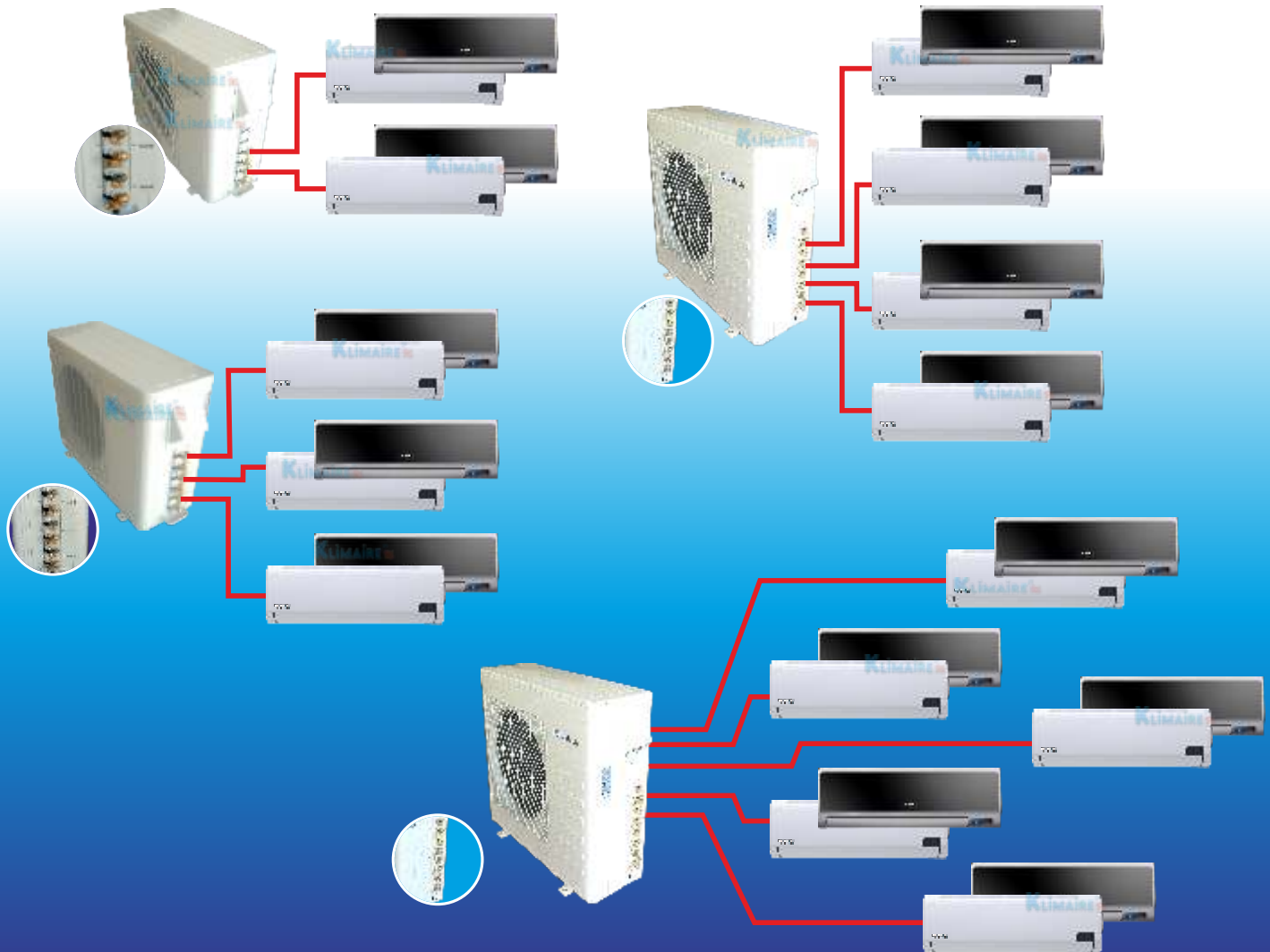
Quieter operation – It is less noisy than a self contained window unit, or a packaged terminal unit (PTAC / PTHP), or a central unit. A ductless split system is ultra-quiet because it does not have to push conditioned air through many feet of ductwork, and the noisier outdoor portion of the system operates outdoors.

Comfort – A true zone temperature control optimizes your comfort. Even a single-zone or a multi-zone Klimaire INVERTECH advanced DC Inverter technology provides maximum comfort for the entire space by individual temperature and humidity control. By utilizing inverter technology, temperature and humidity fluctuations are minimized, this state-of-the-art electronic climate control also changes the louver direction swings air, to create uniform ambient conditions. When the selected temperature is reached an inverter system runs almost constantly at low economy speed to maintain desired comfort level controlling humidity which is considered vital for comfort.

Powerful – By means of a microprocessor Inverter Technology senses the indoor air temperature of the space being cooled or heated and adjusts the speed of the compressor to run at higher speed to meet the demand and quickly reach the set temperature, then slows down to lower rotation speed to maintain it.

Convenient – Excellent for remodeling older homes, convenient for retrofitting, vacation homes, cabins, classrooms, churches, nursing homes, restaurants, computer rooms, sun rooms, ATMs, office lobbies and remote offices.

Environmentally Friendly – Our units use environmentally friendly R-410A refrigerant designed to prevent the depletion of the ozone layer. Our super high efficiency products contribute to reduce fossil fuel





KTIM

The KTIM cassette unit provides cooling and heating capacity with the 360° flow system allows distributing comfort to every corner of the room; additionally it can share this capacity with an adjacent room by means of flex duct connection; exposed decorative panel 4-way distribution. The off-white color blends with any ceiling configuration.

- The removable panel makes the clean process much easier.
- Fresh air intake design
- Easy maintenance built-in drain pump
- Terminals for connecting an alarm and long distance on-off control
- Auto re-start function can be set up on the main PCB
- These units can be installed as a two zone system combined in any of the different available capacities.
- Remote controlled
- Sleep mode
- Grille and indoor unit are shipped in separate boxes
- 12,000 Btu & 18,000 Btu models are available



KDIM

The KDIM hideaway, low profile slim design allows installation above a drop ceiling or attic space easily, no floor space or cabinet build-up required. The unit is less than 9" in height. Back air inlet is standard, and bottom is optional. The bottom and back flange plate size is the same, which makes it easy to exchange installation return air opening from back to bottom. Unit is ideal to cool several zones, such as bedroom and bathroom in residences; foyer, bathroom, and bedroom combinations in commercial applications.

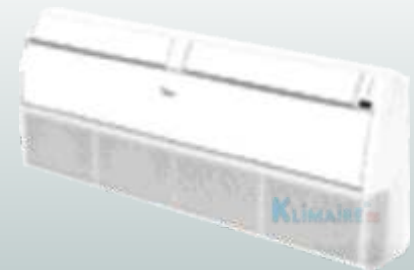
- Standard fresh air hole, easy air duct connection
- Wired control
- Independent dehumidification
- Anti-cold air function
- Sleep mode
- 12,000 Btu & 18,000 Btu models are available



KUIM

The KUIM unique decorative and versatile design allows the unit to be suspended from the ceiling or placed low on the wall or simply placed on the floor. Extremely quiet, and rugged construction makes it ideal for areas of heavy traffic and public areas. They are perfect for residential or commercial applications.

- Attractive, modern design
- Exceptionally quiet operation
- Ease of service and installation
- Anti-cold air function
- Auto restart function
- Auto defrosting
- Sleep mode
- 12,000 Btu & 18,000 Btu models are available



KFIM

Klimaair KFIM console fan coils are designed and engineered to provide with its innovative style years of reliable operation, energy-efficient, and unmatched comfort, and many years of trouble-free performance.

- Wide angle air flow
- Quiet and fashion design
- Air inlet from 4 direction, and two optional air outlet ways
- Low noise, energy saving.
- Sleep mode
- 12,000 Btu & 18,000 Btu models are available



NOMENCLATURE



OUTDOOR UNIT PRODUCT CODE

K S I M 2 18 - H 2 21 A

- Minor design change
- Efficiency SEER
- Power Supply
2 : 208-230 / 1 / 60
- Operational Information
H: Heat Pump
- Cooling Capacity

Total	Zone
18,000 Btu/h	0912
30,000 Btu/h	
36,000 Btu/h	
48,000 Btu/h	
- Max. Number of Fan Coils
2, 3, 4, 5
- Product Series
- Unit Type
I : Inverter
- Model
S: System
- Brand
K: Klimate

MULTIZONE INDOOR UNIT PRODUCT CODE

K W I L 12 - H 2 B

- Options IM Wall Mout Models
B: Black
R: Burgundy
L: Blue
S: Silver
- Power Supply
2 : 208-230 / 1 / 60
- Operational Information
H: Heat Pump
- Nominal Capacity
09 : 9,000 Btu/h
12 : 12,000 Btu/h
18 : 18,000 Btu/h
- Product Series
M: Series
L: Series
O: Series
- Unit Type
I : Inverter
- Model
D: Ducted ceiling recessed
F: Floor console
T: Ceiling cassette
U: Ceiling / Floor
W: Wall mounted
- Brand
K: Klimate

GENERAL SPECIFICATIONS

Flex Series

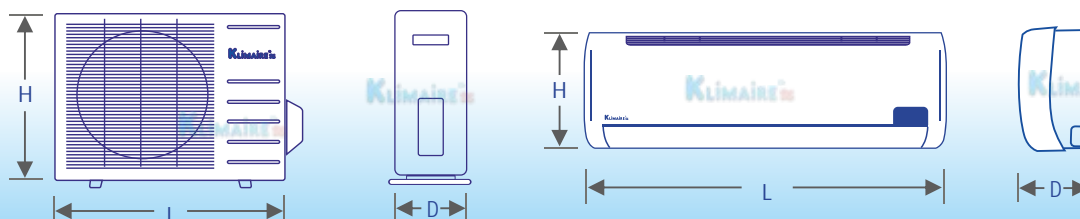
KSIM Multi Zone + KWIL



Multi Zone O.U. Model Number			KSIM218-H221	KSIM330-H219	KSIM40912-H216	
Indoor Unit Series			KWIL	KWIL	KWIL	
Power supply		V/ph/Hz	208-230 / 1 / 60			
Cooling	Capacity	Btu/h	18000	30000	36000	
	EER	Btu/w	9.9	7.5	8.9	
	SEER		17	16	16.5	
Heating	Capacity	Btu/h	19000	30000	39000	
	HSPF		9	9.0	9.0	
Low temperature heating capacity (36 °F)		Btu/h	11790	21990	26945	
Low temperature heating capacity (19 °F)		Btu/h	10745	16495	17680	
Minimum Circuit Ampacity		A	11.0	18.0	27.0	
Max. Fuse Size		A	15.0	30.0	40.0	
Compressor	Type		Twin-rotary	Twin-rotary	Twin-rotary	
	Capacity	Btu/h	13170	26289	33711	
	Input	W	990	2120	3010	
	Rated current(RLA)	A	4.97	8.85	13.5	
	Locked rotor Amp(LRA)	A	----	----	----	
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/500	ESTER OIL VG74/820	FV50S/1070	
Outdoor	Input	W	50	72	180	
Fan motor	RLA	A	0,74	0,7	1,3	
	Speed	r/min	750	800	850	
Outdoor air flow		cfm	1470	2060	2240	
Outdoor noise level		dB(A)	57	63	65	
Outdoor unit	Dimension(W*D*H)	in	33.27x12.6x27.56	35.43x12.40x33.86	38.98x13.58x37.99	
	Packing (W*D*H)	in	37.99x15.55x29.72	41.06x15.55x36.02	44.09x17.13x43.31	
	Net/Gross weight	lb	117.95/125.66	136.69/147.71	179.67/188.49	
Refrigerant type		oz	R410A/51	R410A/88.2	R410A/95	
Refrigerant precharge (Total pipe length)		ft	25 x2	25 x3	25 x4	
Additional charge for each ft		oz	0.161	0.161	0.161	
Design pressure		psig	540/300	540/300	540/340	
Refrigerant piping	Liquid side/ Gas side	in	2 x 1/4"/3/8"	3 x 1/4" /3/8"	4 x 1/4"/3/8"	
	Max. length for all rooms	ft	98	148	197	
	Max. length for one indoor unit	ft	66	82	98	
	Max. height difference between indoor and outdoor unit	OU higher than IU	ft	33	33	33
		OU lower than IU	ft	49	49	49
	Max. height difference between indoor units	ft	33	33	33	
	Thermostat type			Remote control	Remote control	Remote control
Ambient Temperature	Cooling	°F	5 ~ 122	5 ~ 122	5 ~ 122	
	Heating	?	5 ~ 76	5 ~ 76	5 ~ 76	

KWIL Series Fan Coil Units

Model Number			KWIL09-H2	KWIL12-H2	KWIL18-H2
Capacity	Cooling	Btu/h	9,000	12,400	16,500
	Heating	Btu/h	10,000	12,700	19,200
Electrical data	Voltage	V / ph / Hz	208-230 / 1 / 60		
Performance	Air Flow Volume	cfm	265	335	518
	Noise Level - dB(A)	Hi/Med/Lo	35/30/25	37/32/27	42/37/33
Dimensions & Weight	Unit Dimension - W*H*D	in	27"-15/16 x 9"-13/16 x 7"-1/2	31"-1/8 x 10"-7/16 x 7"-13/16	36"-1/4 x 11"-1/2 x 8"-3/4
	Packing Dimension - W*H*D	in	30"-5/16 x 12"-1/2 x 10"-7/16	34"-7/8 x 13"-3/16 x 10"-7/16	39 15/16 X 14 1/2 X 11 5/8
	Net/Gross Weight	lb	18/20	20/25	27.5/35
	Liquid Pipe Size	mm (in)	Ø6.35(1/4")		
	Gas Pipe Size	mm (in)	Ø9.53(3/8")		



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)
- 3 - Factory installed only, not field option
- 4 - Units may operate in heating mode until the ambient conditions reach 5° F

GENERAL SPECIFICATIONS



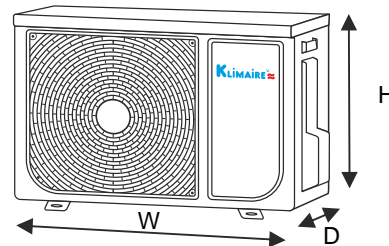
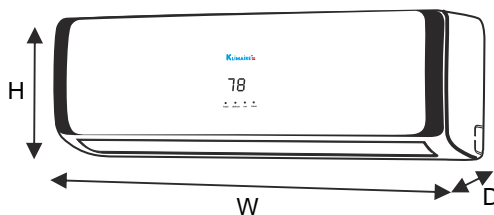
Flex Series

KSIM Multi Zone + KWIO

Multi Zone O.U. Model Number			KSIM218-H221	KSIM330-H219	KSIM330-H219	KSIM40912-H216	KSIM548-H221
Indoor Unit Series			KWIO	KWIO (3 x 9)	KWIO (2x9 + 12)	KWIO	KWIO09-H2 x 4 + KWIO12-H2
Power supply		V/ph/Hz	208-230 / 1 / 60				
Cooling	Capacity	Btu/h	18000	27000	30000	36000	48000
	EER	Btu/w	12	12	8,2	8,5	11
	SEER		21	18,5	16,5	16	20,5
Heating	Capacity	Btu/h	19000	31000	31000	35600	51000
	HSPF		10,2	10	10	9,1	10
Low temperature heating capacity (36 °F)		Btu/h		21990	21990	26945	32000
Low temperature heating capacity (19 °F)		Btu/h		16495	16495	17680	28000
Minimum Circuit Ampacity		A	15	18	18	27	30
Max. Fuse Size		A	20	30	30	40	50
Compressor	Type		Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary
	Capacity	Btu/h	15286	26289	26289	33711	40603
	Input	W	1150	2120	2120	3010	3520
	Rated current(RLA)	A	9,7	8,85	8,85	13,5	21
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/500	ESTER OIL VG74/820	ESTER OIL VG74/820	FV50S/1070	FV50S / 47.3
Outdoor fan motor	Input	W	50	72	72	180	85
	RLA	A	0,74	0,7	0,7	1,3	1,2
	Speed	r/min	750	800	800	850	800
Outdoor air flow		CFM	1470	2060	2060	2240	4240
Outdoor noise level		dB(A)	60	63	63	65	64
Outdoor unit	Dimension(W*D*H)	in	33.27x12.6x27.56	35.43x12.40x33.86	35.43x12.40x33.86	38.98x13.58x37.99	36.9 x 15.4 x 53.9
	Packing (W*D*H)	in	37.99x15.55x29.72	41.06x15.55x36.02	41.06x15.55x36.02	44.09x17.13x43.31	43.1 x 19.5 x 59.3
	Net/Gross weight	lb	105.82/114.64	136.69/147.71	136.69/147.71	179.67/188.49	218.3 / 244.7
Refrigerant type		oz	R410A/68	R410A/88.2	R410A/88.2	R410A/95	R410A / 176
Refrigerant precharge (Total pipe length)		ft	25 x2	25 x3	25 x3	25 x4	25
Additional charge for each ft		oz	0,161	0,161	0,161	0,161	0,161
Design pressure		psig	540/340	540/300	540/300	540/340	550/340
Refrigerant piping	Liquid side/ Gas side	in	2 x 1/4"/3/8"	3 x 1/4"/3/8"	3 x 1/4"/3/8"	4 x 1/4"/3/8"	5x1/4" 3x3/8" + 2x1/2"
	Max. length for all rooms	ft	98	148	148	197	246
	Max. length for one indoor unit	ft	66	82	82	98	98
Max. height difference	Between indoor and outdoor unit	ft	33	33	33	33	33
	<small>OU higher than IU</small>	ft	49	49	49	49	49
	<small>OU lower than IU</small>	ft	33	33	33	33	33
Thermostat		Type	Remote control	Remote control	Remote control	Remote control	Remote control
Ambient temperature	Cooling	?	5 ~ 122	5 ~ 122	5 ~ 122	5 ~ 122	5 ~ 122
	Heating	?	5 ~ 76	5 ~ 76	5 ~ 76	5 ~ 76	5 ~ 76

KWIO Series Fan Coil Units

Model Number			KWIO09-H2	KWIO12-H2	KWIO18-H2
Power supply		V/ph/Hz	208-230V / 1 / 60	208-230V / 1 / 60	208-230V / 1 / 60
Indoor fan motor	Input	W	20	20	58
	RLA	A	0,09	0,09	0,13
	Speed(Hi/Mi/Lo)	r/min	1150 / 1000 / 700	1150 / 1000 / 700	1150 / 900 / 700
Indoor air flow	Hi/Me/Lo	cfm	440/380/260	440/380/260	710/560/440
Indoor noise level	Hi/Me/Lo	dB(A)	43/37/31	43/37/31	47/40/31
Indoor Unit	Unit (W*D*H)	in	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40
	Packing (W*D*H)	in	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75
	Net/Gross Weight	lb	17.64/22.05	18.74/24.25	26.46/30.86
	Liquid / Gas	in	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"
Thermostat		Type	Remote Control	Remote Control	Remote Control
Room temperature	Cooling	?	62 ~ 90	62 ~ 90	62 ~ 90
	Heating	?	32 ~ 86	32 ~ 86	32 ~ 86
Operating temperature		?	62~86	62~86	62~86



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- 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)
- 3 - Factory installed only, not field option. Units may operate in heating and cooling mode until the ambient conditions reach 5° F

GENERAL SPECIFICATIONS

Flex Series

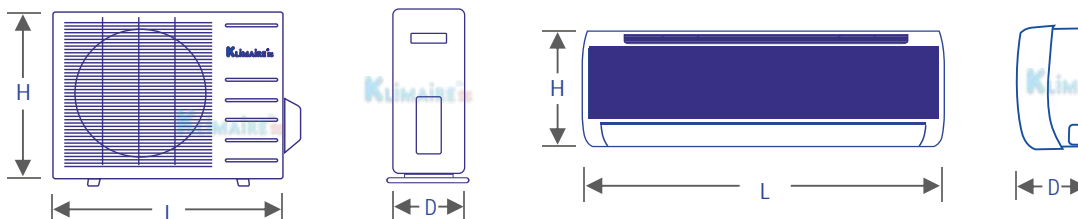
KSIM Multi Zone + KWIM



Multi Zone O.U. Model Number			KSIM218-H221	KSIM330-H219	KSIM40912-H216
Indoor Unit Series			KWIM	KWIM	KWIM
Power supply		V/ph/Hz	208-230 / 1 / 60		
Cooling	Capacity	Btu/h	18000	27000	35400
	EER	Btu/w	9,9	7,5	8,4
	SEER		17	15,5	16
Heating	Capacity	Btu/h	19000	30000	38000
	HSPF		9	9	8,6
Low temperature heating capacity (36 °F)		Btu/h	11790	21990	26945
Low temperature heating capacity (19 °F)		Btu/h	10745	16495	17680
Minimum Circuit Ampacity		A	11	18	27
Max. Fuse Size		A	15	30	40
Compressor	Type		Twin-rotary		
	Capacity	Btu/h	13170	26289	33711
	Input	W	990	2120	3010
	Rated current (RLA)	A	4,97	8,85	13,5
	Locked Rotor Amp (LRA)	A	----	----	----
	Refrigerant oil / oil charge	ml	ESTER OIL VG74/500	ESTER OIL VG74/820	FV50S/1070
Outdoor fan motor	Input	W	50	72	180
	RLA	A	0,74	0,7	1,3
	Speed	r/min	750	800	850
Outdoor air flow		cfm	1470	2060	2240
Outdoor noise level		dB(A)	57	63	65
Outdoor unit	Dimension (W*D*H)	in	33.27x12.6x27.56	35.43x12.40x33.86	38.98x13.58x37.99
	Packing (W*D*H)	in	37.99x15.55x29.72	41.06x15.55x36.02	44.09x17.13x43.31
	Net/Gross weight	lb	117.95/125.66	136.69/147.71	179.67/188.49
Refrigerant type		oz	R410A/51	R410A/88.2	R410A/95
Refrigerant precharge (Total pipe length)		ft	25 x2	25 x3	25 x4
Additional charge / ft		oz	0,161	0,161	0,161
Design pressure		psig	540/300	540/300	540/340
Refrigerant piping	Liquid side/ Gas side	in	2 x 1/4"/3/8"	3 x 1/4"/3/8"	4 x 1/4"/3/8"
	Max. length for all rooms	ft	98	148	197
	Max. length for one indoor unit	ft	66	82	98
Max. height difference	Between indoor and outdoor unit	OU higher than IU	ft	33	33
		OU lower than IU	ft	49	49
	Between indoor units	ft	33	33	33
Thermostat type			Remote control	Remote control	Remote control
Ambient temperature	Cooling	?	5 ~ 122	5 ~ 122	5 ~ 122
	Heating	?	5 ~ 76	5 ~ 76	5 ~ 76

KWIM Series Fan coil Units

Model Number			KWIM09-H2	KWIM12-H2	KWIM18-H2
Capacity	Cooling	Btu/h	9,000	12,000	17,000
	Heating	Btu/h	10,000	13,000	18,000
Electrical data	Voltage	V / ph / Hz	208-230 / 1 / 60		
Performance	Air Flow Volume	cfm	324	383	470
	Noise Level - dB(A)	Hi/Med/Lo	38/35/32	40/37/34	42/37/33
Dimensions & Weight	Unit Dimension - W*H*D	in	31"-5/16 x 10"-5/8 x 6"-1/2	33"-1/4 x 11" 1/4 x 6"-1/2	39"-3/16 x 11"-5/8 x 7"-5/8
	Packing Dimension - W*H*D	in	33"-7/16 x 13"-3/8 x 11"-1/4	35 10/16x14 x11 4/16	43 5/16 x 16 5/16 X11 7/16
	Net/Gross Weight	lb	22/25	23/26	28/35
	Liquid Pipe Size	mm (in)	Ø6.35(1/4")	Ø6.35(1/4")	Ø6.35(1/4")
	Gas Pipe Size	mm (in)	Ø9.53(3/8")	Ø12.7(1/2")	Ø12.7(1/2")
Features	Turbo		YES	YES	YES
	Auto-Restart Function		YES	YES	YES
	Sleep Mode		YES	YES	YES
	Self-cleaning		YES	YES	YES
	LCD Display		YES	YES	YES
	Auto Level swing		YES	YES	YES
	Vitamin C Filter		OPTION	OPTION	OPTION
	Bio Filter		OPTION	OPTION	OPTION
Silver Ion Filter		OPTION	OPTION	OPTION	



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- 2 - Outdoor unit being elevated than the indoor unit oil trap should be installed every 17 ft to 23 ft (5 to 7 m)
- 3 - Factory installed only, not field option
- 4 - Units may operate in heating mode until the ambient conditions reach 5° F

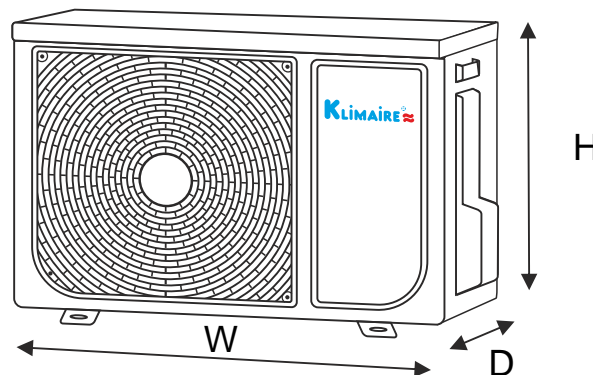
GENERAL SPECIFICATIONS



Flex Series KSIM Multi Zone Outdoor unit

KSIM Series Outdoor Units

Multi Zone O.U. Model Number		KSIM218-H221	KSIM330-H219	KSIM40912-H216	KSIM548-H221	
Power supply		208-230 / 1 / 60				
Cooling	Capacity	Btu/h	18000	30000	36000	48000
	EER	Btu/w	12	8,2	8,5	11
	SEER		21	16,5	16	20,5
Heating	Capacity	Btu/h	19000	31000	35600	51000
	HSPF		10,2	10	9,1	10
Low temperature heating capacity (36 °F)		Btu/h		21990	26945	32000
Low temperature heating capacity (19 °F)		Btu/h		16495	17680	28000
Minimum Circuit Ampacity		A	15	18	27	30
Max. Fuse Size		A	20	30	40	50
Compressor	Type	Twin-rotary				
	Capacity	Btu/h	15286	26289	33711	40603
	Input	W	1150	2120	3010	3520
	Rated current(RLA)	A	9,7	8,85	13,5	21
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/500	ESTER OIL VG74/820	FV50S/1070	FV50S / 47.3
Outdoor fan motor	Input	W	50	72	180	85
	RLA	A	0,74	0,7	1,3	1,2
	Speed	r/min	750	800	850	800
Outdoor air flow		CFM	1470	2060	2240	4240
Outdoor noise level		dB(A)	60	63	65	64
Outdoor unit	Dimension(W*D*H)	in	33.27x12.6x27.56	35.43x12.40x33.86	38.98x13.58x37.99	36.9 x 15.4 x 53.9
	Packing (W*D*H)	in	37.99x15.55x29.72	41.06x15.55x36.02	44.09x17.13x43.31	43.1 x 19.5 x 59.3
	Net/Gross weight	lb	105.82/114.64	136.69/147.71	179.67/188.49	218.3 / 244.7
Refrigerant type		oz	R410A/68	R410A/88.2	R410A/95	R410A / 176
Refrigerant precharge (Total pipe length)		ft	25 x2	25 x3	25 x4	25
Additional charge for each ft		oz	0,161	0,161	0,161	0,161
Design pressure		psig	540/340	540/300	540/340	550/340
Refrigerant piping	Liquid side/ Gas side	in	2 x 1/4"/3/8"	3 x 1/4"/3/8"	4 x 1/4"/3/8"	5x1/4" 3x3/8" + 2x1/2"
	Max. length for all rooms	ft	98	148	197	246
	Max. length for one indoor unit	ft	66	82	98	98
Max. height difference	Between indoor and outdoor unit	ft	33	33	33	33
	<small>OU higher than IU</small>	ft	49	49	49	49
	<small>OU lower than IU</small>	ft	33	33	33	33
Thermostat		Type	Remote control	Remote control	Remote control	Remote control
Ambient temperature	Cooling	?	5 ~ 122	5 ~ 122	5 ~ 122	5 ~ 122
	Heating	?	5 ~ 76	5 ~ 76	5 ~ 76	5 ~ 76



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3 - Factory installed only, not field option. Units may operate in heating and cooling mode until the ambient conditions reach 5° F

GENERAL SPECIFICATIONS

Flex Match Series

Multi Zone - Heat Pump



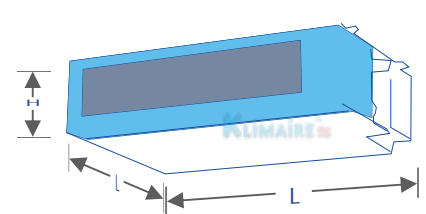
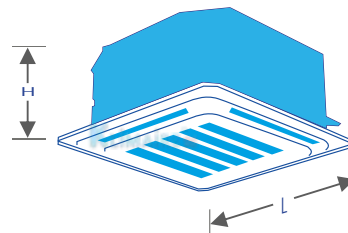
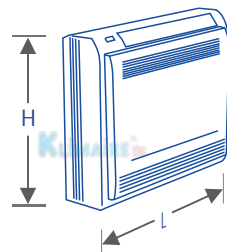
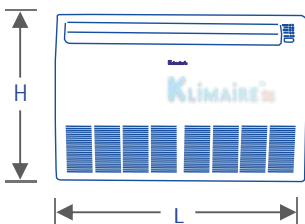
<i>KTIM Series Cassette Fan Coil Unit</i>			KTIM012	KTIM018
Capacity	Cooling	Btu/h	12.000	18.000
	Heating	Btu/h	13.000	20.500
Performance	Air Flow Volume	cfm	341	441
	Noise Level - dB(A)	Hi/Med/Lo	42/38/32	44/39/33
Dimensions & Weight	Unit Dimension - W*H*D	in	22"-7/16 x 22"-7/16 x 10"-1/4	22"-7/16 x 22"-7/16 x 10"-1/4
	Packing Dimension - W*H*D	in	25"-13/16 x 25"-13/16 x 11"-7/16	25"-13/16 x 25"-13/16 x 11"-7/16
	Net/Gross Weight	lb	35 / 42	40 / 46
	Liquid Pipe Size	in	1/4"	1/4"
	Gas Pipe Size	in	1/2"	1/2"
<i>KUIM Series Floor/Ceiling Fan Coil Unit</i>			KUIM012	KUIM018
Capacity	Cooling	Btu/h	12.000	18.000
	Heating	Btu/h	13.000	20.000
Performance	Air Flow Volume	cfm	344	471
	Noise Level - dB(A)	Hi/Med/Lo	40/37/33	40/37/33
Dimensions & Weight	Unit Dimension - W*H*D	in	39" x 26" x 8"	39" x 26" x 8"
	Packing Dimension - W*H*D	in	40"-13/16 x 29"-1/8 x 9"-3/8	40"-13/16 x 29"-1/8 x 9"-3/8
	Net/Gross Weight	lb	53 / 66	53 / 66
	Liquid Pipe Size	in	1/4"	1/4"
	Gas Pipe Size	in	1/2"	1/2"
<i>KFIM Series Console Fan Coil Unit</i>			KFIM012	KFIM018
Capacity	Cooling	Btu/h	12.000	18.000
	Heating	Btu/h	14.000	20.000
Performance	Air Flow Volume	cfm	265	371
	Noise Level - dB(A)	Hi/Med/Lo	37/23/28	45/42/35
Dimensions & Weight	Unit Dimension - W*H*D	in	27"-9/16 x 23"-5/8 x 8"-1/4	27"-9/16 x 23"-5/8 x 8"-1/4
	Packing Dimension - W*H*D	in	31"7/8 x 27"-15/16 x 12"	31"7/8 x 27"-15/16 x 12"
	Net/Gross Weight	lb	33 / 44	33 / 44
	Liquid Pipe Size	in	1/4"	1/4"
	Gas Pipe Size	in	1/2"	1/2"
<i>KDIM Series Ducted Recessed Fan Coil Unit</i>			KDIM012	KDIM018
Capacity	Cooling	Btu/h	12.000	18.000
	Heating	Btu/h	13.000	20.000
Performance	Air Flow Volume	cfm	353	530
	Noise Level - dB(A)	Hi/Med/Lo	39	41
Dimensions & Weight	Unit Dimension - W*H*D	in	27"-9/16 x 25" x 8"-1/4	36"-1/4 x 25" x 8"-1/4
	Packing Dimension - W*H*D	in	36" x 25"3/16 x 10"-13/16	44"-11/16 x 25"-13/16 x 11"-7/16
	Net/Gross Weight	lb	44 / 55	51 / 64
	Liquid Pipe Size	in	1/4"	1/4"
	Gas Pipe Size	in	1/2"	1/2"

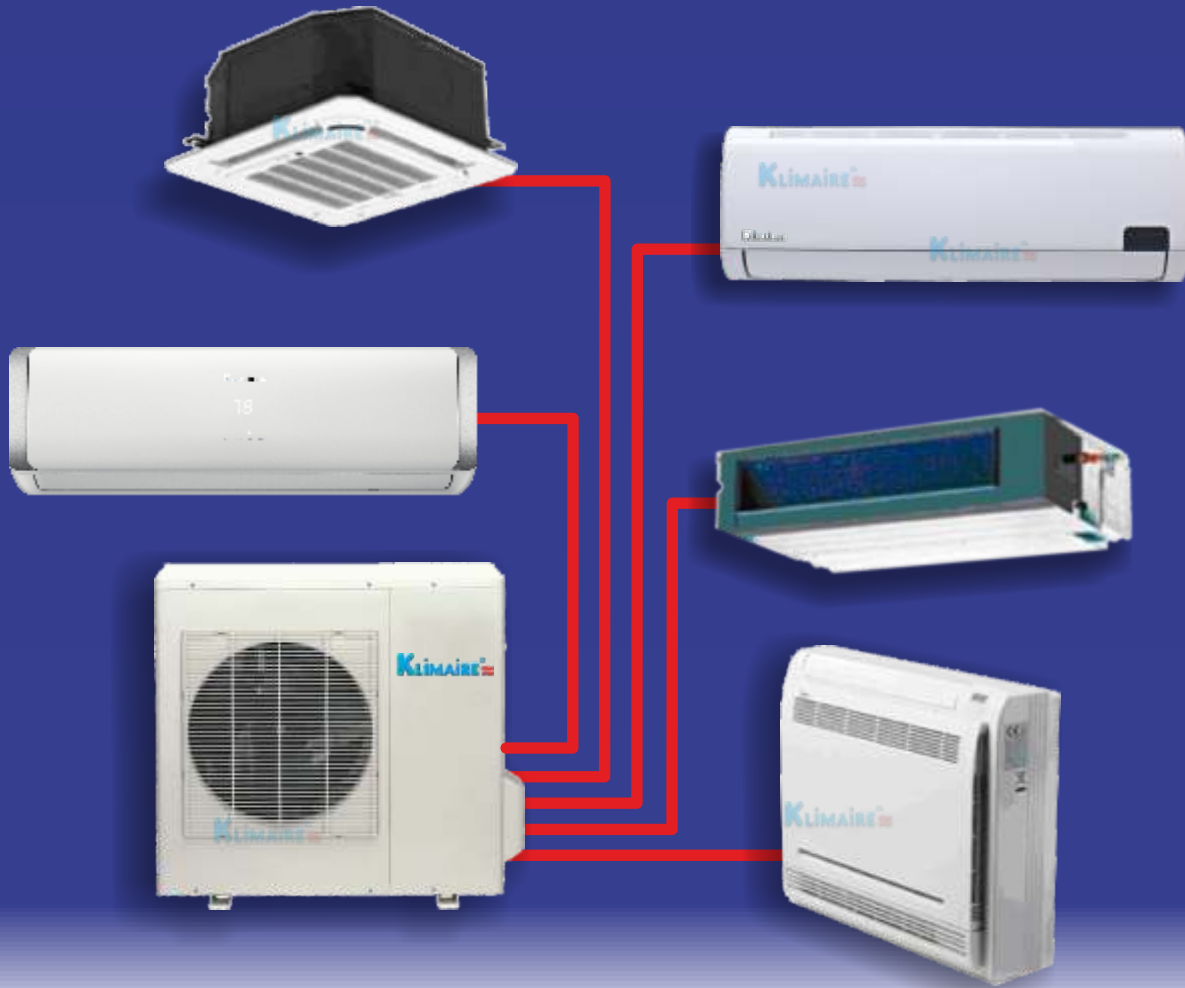
KUIM

KFIM

KTIM

KDIM





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