KSIH SERIES

HYPER HEATING SERIES
NEW RESIDENTIAL LINE

20-25 SEER

iOS   Android

Smart Control System

You will find

a new favorite place

at HOME

heating could never be better

Klimaire®

Mark of Superior Quality

- 100% COOLING CAPACITY @ 0° F AMBIENT TEMPERATURE
- 100% HEATING CAPACITY @ 5° F (-15° C) AMBIENT TEMPERATURE
- OPERATES EFFICIENTLY @ -13° F (-25° C)

Overview

These systems are designed to deliver effective heating performance at temperatures as low as 13º F (-25º C) in cold regions where homeowners want to enjoy a reliable energy efficient heating source. Delivers 100% heating capacity at 5º F ambient temperature and heating operation range has been extended to -22º F (-30º C).

Klimaire slim and stylish single zone ductless systems offers duct free benefits. These systems are integrated with innovative inverter technology providing individual comfort and control. Experience true individual comfort.

Ductless Mini-Split systems are the perfect solution to a variety of installation challenge, eliminates 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.

Standard Features

Klimaire KSIH Heat Pump for extreme winter - Up to 100% heating capacity at 5º F (-15º C) and operates efficiently as low as -13º F ambient temperature.

Golden Fin - Anticorrosion coating to protect the outdoor coil from corrosive elements to maintain higher heat transfer for a longer time span.

Self-Cleaning - Your Klimaire KSIH series equipped with Auto Clean Function. It cleans and dries the evaporator to prevent mildew grow and odor to keep it fresh for next operation

Low Ambient Cooling Operates in cooling mode in the low winter ambient conditions down to 5° F when cooling is necessary in spaces like server rooms, sun rooms & hydroponic labs.

Refrigerant Leakage Detection You will be alerted when refrigerant is low. Prevents damage to the compressor by automatically turning off the unit

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

Energy efficiency Up to 25 SEER	Timer	Turbo Mode	Temperature Compensation	Anti-Cold-Air (Heat Pump Only)	Cold Catalyst Filter	Self-Cleaning	Sleep Mode
Auto Restart	46ºF Heating	Auto Defrosting	Up to 100% Cooling capacity	Outdoor Metal Grill	Follow me	Self Diagnostic Service	Crankcase Heater
Louver Position Memory	2 ways draining	12 Grades ID Fan Speed	Outdoor Unit Pan Heater	High Density Washable Air Filter	Silent Mode Low Noise Airflow	5 Grades OD Fan Speed	

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

- New construction and renovations
- Primary living areas
- Homes and businesses
- Rooms that are always too hot or too cold
- Single or multi family
- Basements, attics, garages, additions

Remotely managed

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.

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

Remotely managed - Remotely manage your mini-split system using a simple smartphone, tablet or PC via the Internet.

Cloud System

iOS and Android APPS

Optional Smart Kit

Local Control

Standard Wi-Fi b/g/n router

iOS and Android APPS

From Everywhere

Room by Room

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.

76
69
70
70
73
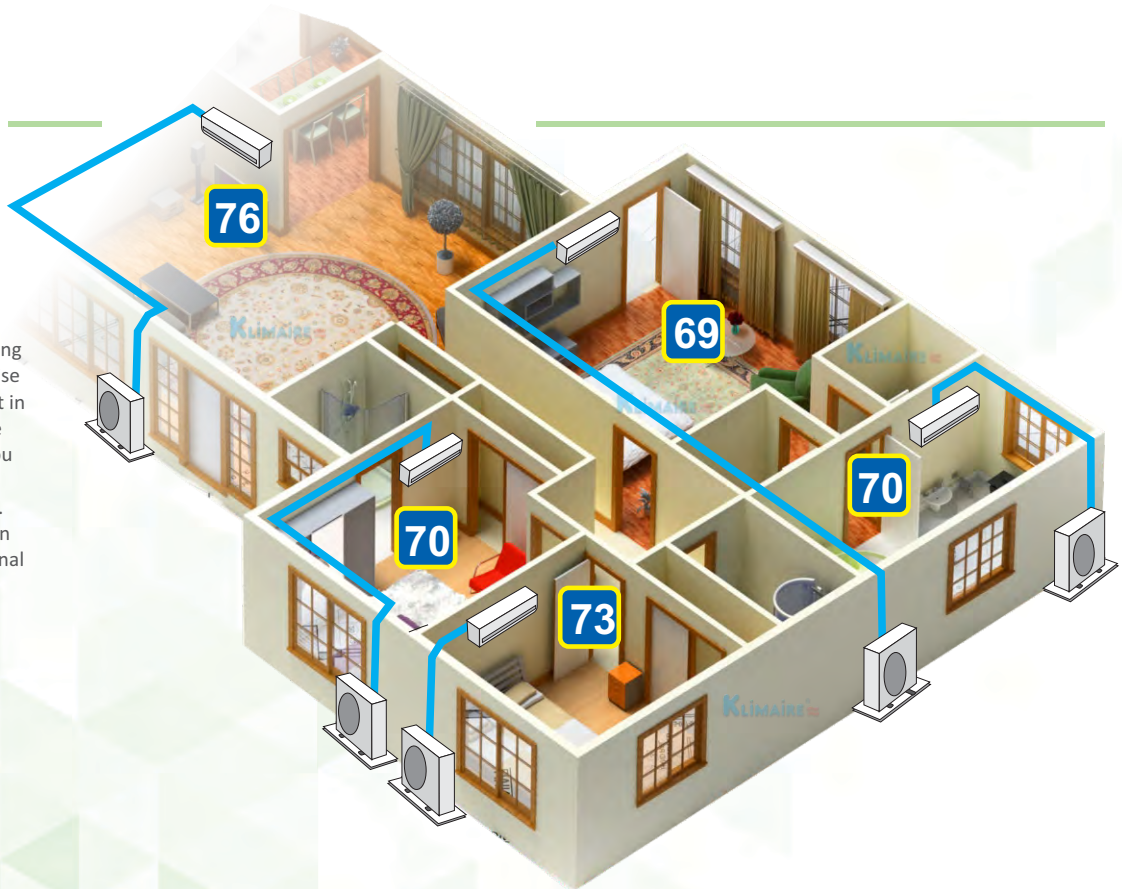
Accessories

115 - 230 V

WAFB21

WAFP21

Condensate Drain Mini-Pumps

Outdoor unit wall brackets

EZ - Quick installation kits 15, 25, 35, 50 ft.

Optional Wired Control

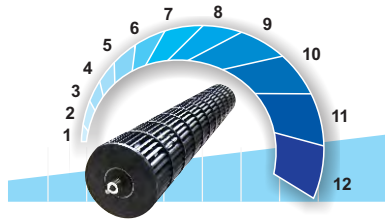Klimaire ® **Mark of Superior Quality**
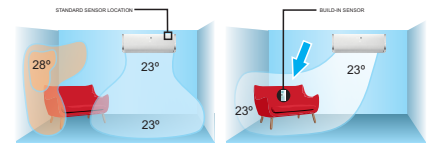
Total Comfort

Turbo Mode

When the air conditioner goes into this mode maximizes the cooling or heating capacity output cooling down or heating up the room fast.

12 Grades Fan Speed

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

Follow-me

STANDARD SENSOR LOCATION   BUILD-IN SENSOR

28°   23°   23°
23°   23°   23°

This initiates the Follow Me feature, the remote displays the actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes until you press the Follow Me button again. The air conditioner will cancel this feature automatically if it does not receive the signal within any 7 minutes interval.

Sleep Mode

During sleep mode the AC will automatically increase (cooling) or decrease (heating) by 1º 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.

- Low Noise Design
- Optimize air discharge vane

Max Decrease
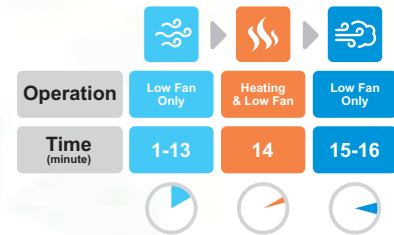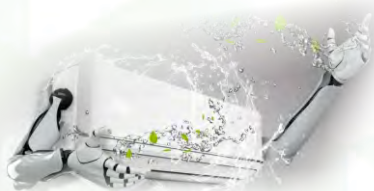**3.5dB(A)**

- Silent Mode
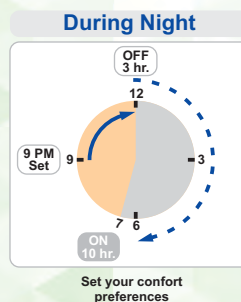
Indoor fan run at an extra breeze

Self Cleaning

In SELF-CLEAN mode, the air conditioner will automatically clean and dry the evaporator to prevent mildew grow and keep it fresh for the next operation.

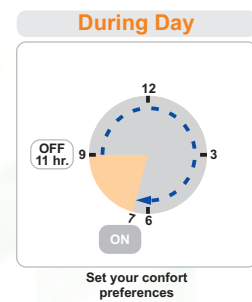| Operation	Low Fan Only	Heating & Low Fan	Low Fan Only
Time (minute)	1-13	14	15-16

ON / OFF 24 hr. Programmable Timer

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

During Night

OFF 3 hr.
12
9 PM Set   9   3
7 6
ON 10 hr.

Set your confort preferences

Remote Control

TIMER ON

TIMER OFF

During Day

12
OFF 11 hr.   9   3
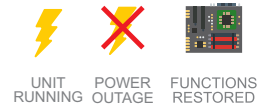7 6
ON

Set your confort preferences

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

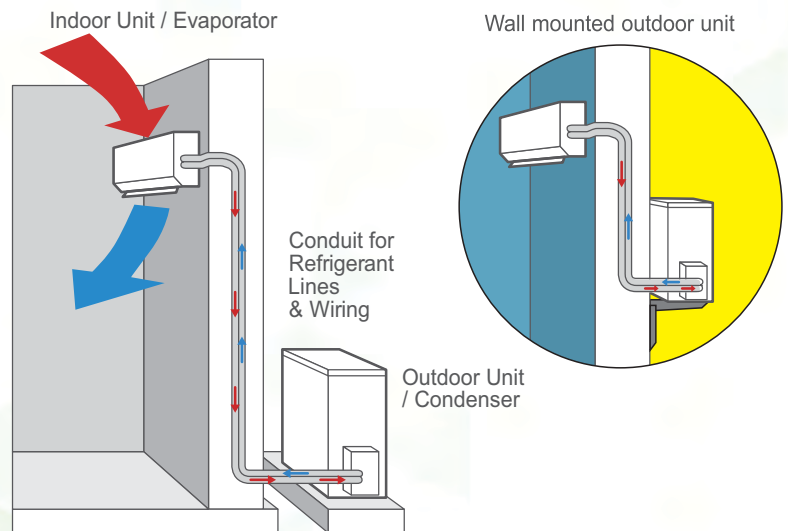UNIT RUNNING   POWER OUTAGE   FUNCTIONS RESTORED

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.
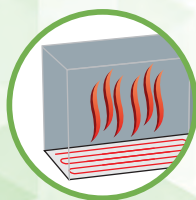
Ductless Mini-split

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.

Indoor Unit / Evaporator

Wall mounted outdoor unit

Conduit for Refrigerant Lines & Wiring

Outdoor Unit / Condenser

Reliability
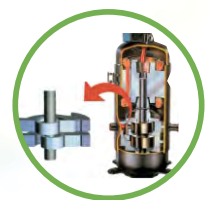
Base Pan Heater

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

Compressor Heater

Ensures Compressor longevity and reliability

TwinCam

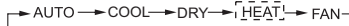A high performance double cam twin rotary compressor increases the performance, reliability and durability

KLIMAIRE

Mark of Superior Quality

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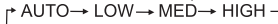
NOTE: You can not switch the fan speed in AUTO or DRY mode.

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.
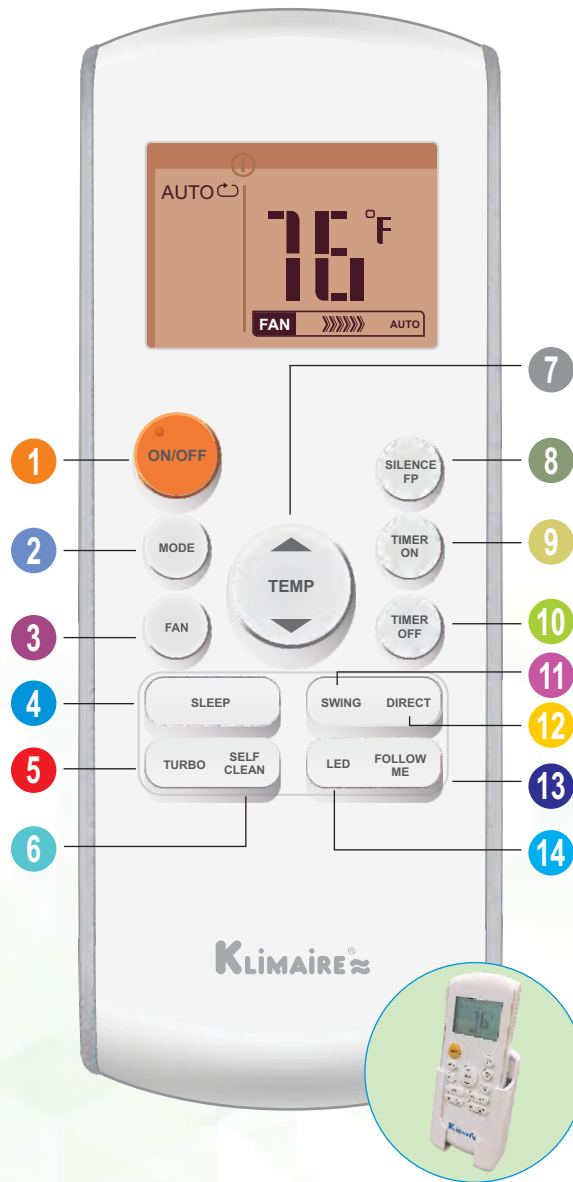
UP Button (▲)
Push this button to increase the indoor temperature setting in 1℉ increments to 86ºF.

DOWN Button (▼)
Push this button to decrease the indoor temperature setting in 1℉ increments to 62ºF.
NOTE: Temperature contol 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 ºC & ºF scale.

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 creat 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.

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 10.0, 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.

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 10.0, 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

11 SWING Button
Used to stop or start horizontal louver auto swing feature.

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

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.

KSIH Product Code

K	S	I	H	018	—	H	2	20	I	W	—	2

Brand
K: Klimaire

Product Type
S: Single-zone System

Unit Type
I : DC Inverter

Product Series

Nominal Capacity
009:   9,000 Btu/h
012: 12,000 Btu/h
018: 18,000 Btu/h
024: 24,000 Btu/h

Operational Function
H: Heat Pump
C: Cooling Only

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

Nominal Efficiency
SEER

Unit Type
O: Outdoor Dedicated
I: Indoor Unit

Wi Fi
Operation Enabled

Revision & Design

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KSIH

			KSIH009-H225-IW-2	KSIH012-H222-IW-2	KSIH018-H220-IW-2	KSIH024-H220-IW-2
Indoor			KSIH009-H225-IW-2	KSIH012-H222-IW-2	KSIH018-H220-IW-2	KSIH024-H220-IW-2
Outdoor			KSIH009-H225-O-2	KSIH012-H222-O-2	KSIH018-H220-O-2	KSIH024-H220-O-2
Power supply		V/ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Cooling	Capacity rated	Btu/h	9000	12000	17000	24000
	Min. - Max. rated	Btu/h	3500-13000	4000-13800	4500-18800	5500-24500
	Input	W	620	960	1360	1920
	Rated current	A	2,7	4,2	5,95	8,4
	EER	Btu/w	14,5	13	12,5	13
	SEER	Btu/w	25	22,5	20	20,5
	EER2	*Btu/w*	*15,8*	*13*	*13*	*12,5*
	SEER2	*Btu/w*	*26,4*	*23,1*	*22*	*22,3*
Heating	Capacity rated	Btu/h	10900	11800	18000	24000
	Min. - Max. rated	Btu/h	4500-14500	5000-15500	5500-24000	6000-32000
	Max. heating capacity @ 5/-5/-13 ºF	Btu/h	12010/9650/9002	12000/9820/9010	18520/17010/16520	24030/21020/16520
	Input	W	835	975	1685	2500
	Rated current	A	3,6	4,2	7,4	10,9
	COP	W/W	3,83	3,55	3,13	2,81
	HSPF	Btu/w	11,2	12	10,3	11,5
	HSPF2	*Btu/w*	*11,6*	*10,5*	*10,6*	*10,3*
Minimum Circuit Ampacity - MCA		A	9	9	18	20
Maximum Fuse Size - MOCP		A	15	15	25	30
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Capacity	Btu/h	11594	11430	24345	24345
	Input	W	858	870	1970	1970
	Rated current (RLA)	A	5,25	5,65	12,3	14
	Refrigerant oil/oil charge	ml	Ester Oil VG74 / 500	Ester Oil VG74 / 500	POE (VG74) / 670	POE (VG74) / 670
Indoor fan motor	Input	W	50	50	58 (Output)	72
	RLA	A	0,06	0,06	0,13	0,3
	Speed(Hi/Mi/Lo)	rpm	1170/900/700	1170/900/700	1100 / 900 / 700	1200/1100/900
Indoor air flow (Hi/Mi/Lo)		cfm	418/324/247	418/324/247	599/411/353	794/647/500
Indoor noise level (Hi/Mi/Lo)		dB(A)	42/33/24.5	43/36/24	45.5/36/26.5	47.5 /44/36.5
Indoor unit	Dimension(W*D*H)	in	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39
	Packing (W*D*H)	in	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x13.39x16.53
	Net/Gross weight	lb	19.84/25.35	19.84/26.68	26.89/34.83	40.12/50.26
Outdoor fan motor	Input	W	63	63	115/81/44	150
	RLA	A	0,38	0,38	0,42	0,5
Outdoor air flow		cfm	1120	1180	1355	2355
Outdoor noise level		dB(A)	55,5	56	57,5	60
Outdoor unit	Dimension(W*D*H)	in	31.5x13.1x21.8	31.5x13.1x21.8	33.3x14.3x27.6	37.2/16.1/31.9
	Packing (W*D*H)	in	36.2x15.4x24.2	36.2x15.4x24.2	38x15.6x29.7	42.9x19.7x34.5
	Net/Gross weight	lb	88.2/93.7	88.2/93.7	107.4/115.1	135.6/148.8
Refrigerant type		oz	R410A / 52.9	R410A / 52.9	R410A / 68.8	R410A / 91.7
Refrigerant precharge		ft	25	25	25	25
Additional charge for each ft		oz	0,161	0,161	0,161	0,322
Design pressure		psig	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/ Gas side	in	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"
	Max. refrigerant pipe length	ft	82	82	98	164
	Max. difference in level	ft	33	33	66	82
Connection wiring / Stranded, unshielded		AWG x No.	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)	º F	62～90/32～86	62～90/32～86	62～90/32～86	62～90/32～86
	Outdoor (cooling/heating)-optional	º F	-22¡«122/-22¡«86	-22¡«122/-22¡«86	-22¡«122/-22¡«86	-22¡«122/-22¡«86
Application area (cooling standard)		sq. ft	129-189	172-252	258-376	344-505

Continued product improvement is our goal at Klimaire Products, Inc. Hence, specifications and data listed herein are subject to change without notice and without obligation on our part.

Allways comply with local, state, and national electrical codes.
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)

6 in

W   D

H

H

W   D

Eco Friendly

Intertek

DC INVERTER TECHNOLOGY

ENERGY STAR

AHRI CERTIFIED
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI

Klimaire®
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