# KLIMAIRE SERIES

# **NEW RESIDENTIAL LINE**

**4**th **Generation** 12,000 BTU - 36,000 BTU Self Install Unit

Do IT YOURSELF SERIES

Do it Quick

Do it Easy

Do it for Less

















## **About Klimaire**

Our products have proven their endurance and resiliency over time, operating in 70 different countries. Klimaire products exceed industry standards for energy efficiency and employ innovative technology to achieve the highest customer satisfaction.

## **Comfort Wise Systems**

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 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 Comfort-Wise 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.



# **Personalized All-Year Solution**

Experience true individual comfort in all rooms by considering a KLIMAIRE Comfort-Wise Do It Yourself Duct-Free Split air conditioning system. Klimaire heat pumps provide 4 season both cooling and heating in every room with individual temperature setting, humidity control and health benefits, eliminating unhealthy, inefficient and costly ductwork that circulates air year-over-year. Klimaire Ductless heat pumps circulates air through washable pre-filter and air purifying filters of vitamin C, activated carbon and catechin only dedicated to the room being conditioned.











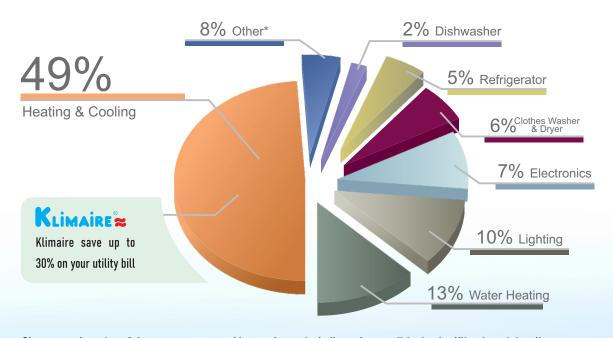
# **Comfort-Wise Systems**

Klimaire KIWQ/KOIQ heat pump systems are affordable, reliable, quiet, built with an integrated variable

speed compressor and an inverter that continuously adjust its capacity for efficient and personalized all year-round cooling and heating in every room of your house, offering flexibility, maximum comfort, and giving cost-savings in any weather conditions.

# 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, and air conditioning system can have a big effect on your utility bills and your comfort.



Since a good portion of the energy consumed in your house is dedicated to conditioning it, Klimaire mini-split high efficiency systems can help to lower significantly your utility bill.





# **Indoor Air Quality (Healthy Air Filtration)**

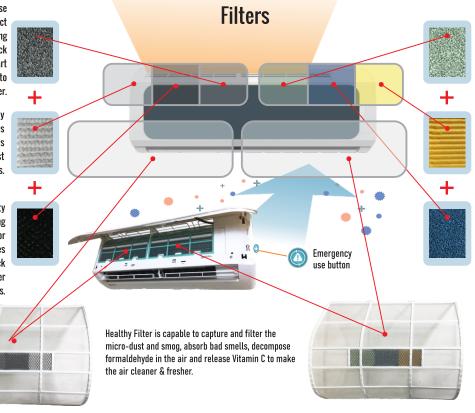
Using multiple different filters at both sides powerfully deodorizes and infuses vitamin C into the air stream.

Photocatalyst filter. The filter release electrons at its surface, which interact with water molecules in the air forming hydroxyl radicals. These radicals attack pollutant molecules, breaking apart their chemical bonds turning them into harmless substances and water.

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

Static free filter. Use static electricity to trap airborne particles by making particles heavier and positively or negatively charged. Airborne particles will no longer stay suspended and stick to the air filter, and releasing after fresh air free of nasty particles.

Washable reusable plastic woven mesh anti-mold filter.



Tea Polyphenols Filter. Polyphenols are natural compounds that help to prevent the growth of micro-organisms and keep allergens out. Helpful in case of allergies

Vitamin C. When the air passes through this section of the filter, Vitamin C is released into the air. This makes the indoor air feel fresh and healthy.

Anion Filter. Negative ions, or anions, are particles with one or more extra electrons, conferring a net negative charge to the particle. Some commercial air purifiers are designed to generate negative ions which cause floating particulates (dust, pet dander, allergens) in the air to cling together and drop to the floor.

Washable reusable plastic woven mesh anti-mold filter.

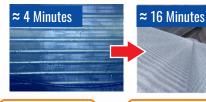
# **Self Cleaning**

The self-cleaning function will prevent growth of harmful micro-organisms by cleaning the evaporator of the indoor unit where accumulation of dust and bacteria could be a major issue. Activate this function to strip off all the dirt accumulated inside your unit and provide you with cleaner and healthier air.

Operation Mode

At the momnent your indoor unit enters succesfully the sel-cleaning mode, it will emit a beep, and the display on the unit will show AC. This process goes thru four stages.

#### **OPERATION**



#### Sweating

During this stage the evaporator coil will work and will be completely covered with droplets of water of condensation occcurring in the indoor unit coil.

#### Frosting

During this stage the water droplets wii freeze and process continue for about 15 minutes.

#### Defrosting

≈ 15 Minutes

After reaching total frost of the coil, the fan coil willenter the defrosting stage which will take about 15 minutes to complete and will drain all the dirt gathered on the coil.

After completing the frosting cycle your indoor unit enters defrosting stage which will take about 15 minutes and will drain all the dirt gathers on the coil.

## High Temperature Drying and Sterilization

4 Minutes

Finally, the indoor unit fan will work blows hot air for drying the coil and eliminate bacteria and mold and leave the evaporator coil clean. When all the processes are finished the

When all the processes are finished the indoor unit will emit 2 beeps and AC on the display will disappear.



≈ As clean as new

Dirtt flush out

Above process may take different time based on ambient temperature and the copper pipe temperature which usually will take about 40 minutes.





# **Revolutionary Do It Yourself Quick Connect**

# **Ductless Mini-Split Heat Pump System**

- Fully factory pre-charged system.
- No vacuuming necessary with pre-charged quick connect refrigerant lines.
- Interconnecting cable with polarized plugs for speeding indoor/outdoor interconnection, reduces field wiring installation errors.
- E-Z KUICK connect refrigerant Tubing Kit (25ft) shortens installation time.





# Ductless Mini-splits have flexibility to fit virtually any application

# Applications are everywhere...

- · Hotels and Motels
- · 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
- Server 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 vears.

#### Computer server

rooms when aditional cooling is necessary even at low ambient conditions.

#### **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.















# **Key Features**

#### **Away Home**

(AH) This function will automatically start the heating mode when the room temperature is equal or lower that 46° F and when it reaches 48° F will return to standby mode.



Alerts when the refrigerant charge is low to prevent damages to the compressor, and automatically turns off the unit.



#### **Goldish Fin**

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



#### Base Pan Heater

To reduce ice build-up and keep efficiency high at low ambient temperature.

Eco

ECO In this mode the unit will automatically sets the operation to save energy in both cooling and heating modes.



### 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
OC I/Dhu	111:0

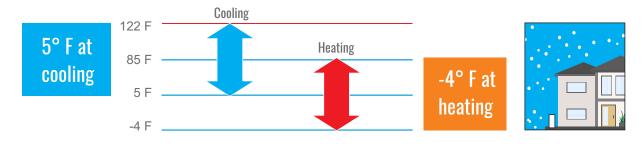


#### Easy to mount

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



#### Low ambient operation



#### **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.

# **Comfort Functions**

#### Turbo mode

Turbo function enables the unit to operate at maximum airflow and maximum compressor heting operation to reach the desired temperature quickly



#### 3-D Airflow



Oscilating Louver Technology distribute air evenly throughout the room with horizontal & vertical auto swing function to ensure harmonized temperature.

## Long range air discharge



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

#### More comfort airflow



Vertical airflow provides powerful floor level heating

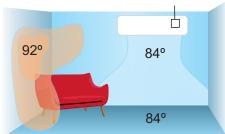


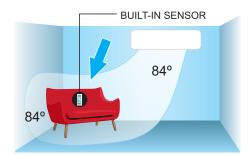
Horizontal airflow does not blow cool air directly at the occupants in the room.



#### I Feel

#### STANDARD SENSOR LOCATION





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.

#### **Emergency Use**



When temperature sensor error happens, the air conditioner will display error code and stop inmediately, while Klimaire AC will display error and continue running in a proper status, to avoid the case that AC is in urgent need.

#### **Anti-cold Wind**



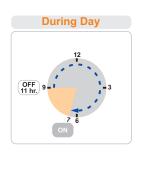
When the heating operation starts the fan coil will automatically run from the lowest speed to the preset level, so it will prevent blowing out cold air at the start of the operation avoiding discomfort to the user.

# 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 ON 10 hr.

# Remote Control TIMER OFF

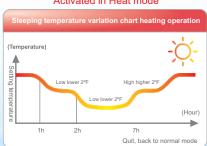


#### Sleep Mode

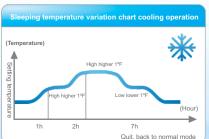
#### Deep SLEEP system

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







# **Feature Explanation**

#### **ENERGY SAVING**



SEER - Seasonal Energy Efficiency Ratio expresses the efficiency of an AC or HP, the higher the number the higher the efficiency.

HSPF - Heating Seasonal Performance Factor measures the performance of your unit working us a heat pump during the heating season.



AWAY HOME - (AH)this function will automatically start the heating mode when the room temperature is lower than 46° F.

INIVERSAL WIRELESS MOTION REMOTE (Ontional)Can detect human



UNIVERSAL WIRELESS MOTION REMOTE (Optional)Can detect human motion within a 25ft radius and control the operation of the AC as programmed.



ECO MODE - In this mode the AC will automatically set the operation to save energy.

#### **COMFORT**



DRY Mode - (independent Dehumidification) This function reduces the humidity of the air to make the ambient of a room more comfortable.

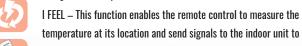


 $\operatorname{AUTO}$   $\operatorname{MODE}$  - In this mode the operating mode will be set automatically according to the room temperature.

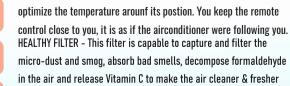


UP-DOWN AUTO SWING - Moves the air with up and down motion LEFT-RIGHT AUO SWING - Moves the air with left-right-left motion AUTO-RESTART - After a power failure the system will automatically restart in the same operating mode as before the outage when the power has been restored.



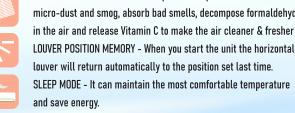












#### CONVENIENCE



 $24h\,\text{TIMER}$  - Allows the user to set the time when the AC will turn ON or OF, and the preferred settings.



TURBO MODE - With this function the AC will operate at the highest fan speed and compressor speed to make the room comfortable quickly.



DISPLAY ON/OFF - switches ON/OFF the LED display on the panel. CELSIUS / FARENHEIT DEGREE SWITCH



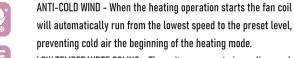
Allows to change the temperature display at the user's preference. EMERGENCY BUTTON - Allows to manually operate the AC unit when the remote is missing at the preset ambient conditions.



Wi-Fi control – Allows you to control remotely over the web the air conditioner of your house with your smartphone, anytime, anywhere.

#### **PERFORMANCE**







LOW TEMPERAURTE COLING - The unit can operate in cooling mode during the winter down to  $5^{\rm o}\,{\rm F}$  to cool an inner room.



LOW TEMPERATURE HEATING - Provides



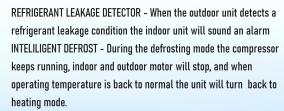
heating even when the outside temperature is as low as -13° F SELF-TROUBLESHOOTING - Provides faster and accurate service diagnostics.



INTELLIGENT DEFROST - Removes frost from the outdoor unit coil when the outdoor temperatures are very low, and at the same time stops the indoor fan to avoid throwing cold air into the room.

#### RELIABILITY







ODU CHASSIS PTC HEATER - To reduce ice build-up and keep efficiency at low ambient temperature.



FIRE PROOF ELECTRICAL BOX - Indoor unit electric control box made of high heat resistance materials is safer and complies with all most safety regulations.



# **ACCESSORIES (Optional)**

#### **Outdoor Unit Brackets**





Accommodate all brand condensing and heat pump units. Brackets include all anchoring accessories to mount the outdoor unit on an exterior wall or on the roof.

#### Mini Condensate Removal Pump



Ultra slim, high performance, easy to install mini condensate removal pump is used where you need an alternative to expel water removed from the air by your air conditioning unit.

#### Universal Motion Remote Controller



Klimaire KUMR-903 is a Universal Motion Remote with a motion sensor, programmable for unparalleled energy savings up to 60% in the operation of any air-conditioning system that incorporates a built-in remote control receiver.

#### Refrigerant Line Cover Kit (13 ft)





Elegant and Durable PVC line cover kit hides and covers up to 13 ft length of all exposed refrigerant tubing along the external wall of your home to give an attractive and professionally finished installation.



# **Nomenclature**

K	1	W	Q	12	Н	1	-	3	Т	
Brand	Component	Unit Type	Family	Capacity	System	Voltage		Generation	Minor Design	
K: Klimaire	I: Indoor	I: Inverter OU		(kBtu/h)	H: Heat Pump	1: 115V / 1ph /60Hz			Feature	
	O: Outdoor	W: Wall Mount FCU		12		2: 208-230V /	1ph / 60Hz			
	S: System			18						

24 36





# **Smart Life APP**

Remotly manage your Mini-Split Heat Pump Unit Anywhere, Anytime!

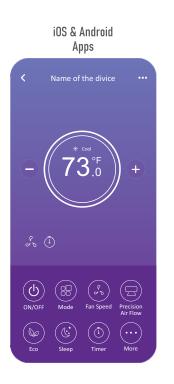
Access Control Funtions using your Smartphone or Tablet.





**Smart Life** 

User Friendly Interface



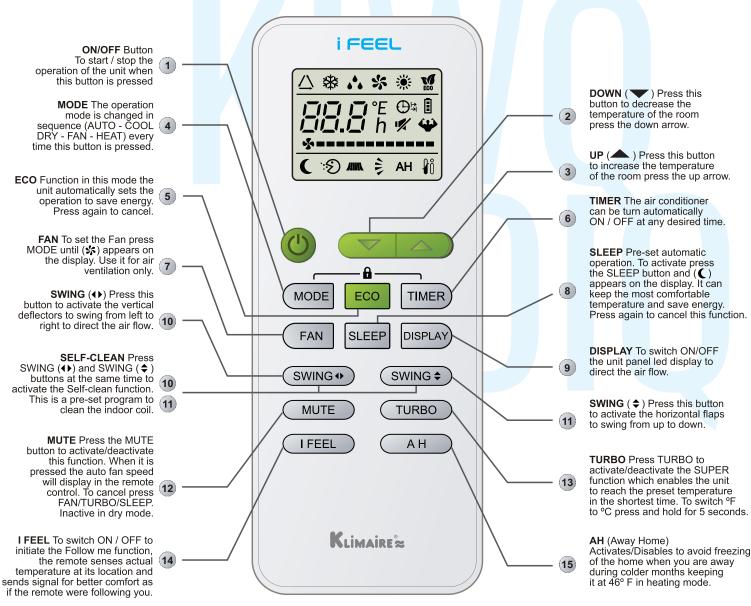














I FEEL Remote Control & Wall Holder

Battery indicator

 $\triangle$ Auto Mode function indicator

\* Cooling Mode indicator

Dry Mode indicator

终 Fan only Mode indicator

Heating Mode indicator

ECO Mode indicator

Timer indicator

☐☐☐°E Temperature indicator

Fan speed indicator:

急急

Auto/Low/Mid/High 1// Mute function indicator

SUPER function indicator

Up-down auto swing indicator

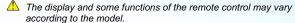
///\/ Left-right auto swing indicator

SLEEP function indicator C

:5) Health function indicator

₽ĥ I FEEL functions indicator

АН 46°F Stand-by Heating



The shape and position of buttons and indicators may vary according to the model, but their function is the same.



The unit confirms the correct reception of each button with a beep.

The display and some functions of the remote control may vary according to the model.

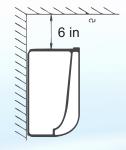


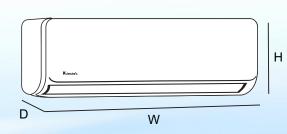
# **Specifications**

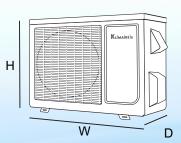
Set Model Number			KIWQ/KOIQ12H1-4(T) KIWQ/KOIQ12H2-4(T) KIWQ/KOIQ18H2-4(T) KIWQ/KOIQ24H2-4(T) KIWQ/KOIQ36H2-4(T)					
Indoor unit mod	el number		KIWQ12H1-4T	KIWQ12H2-4T KIWQ18H2-4T		KIWQ24H2-4T	KIWQ36H2-4T	
Outdoor unit model number			KOIQ12H1-4	KOIQ12H2-4	KOIQ18H2-4	KOIQ24H2-4	KOIQ36H2-4	
Power supply V/ph/Hz			115/1/60	208-230V/1/60	208-230V/1/60	208-230V/1/60	208-230V/1/60	
	Rated cooling capacity	Btu/h	12000	12000	18000	24000	36000	
	Power Consumption	W	1130	1140	1840	2360	3850	
Cooling	Rated Current	Α	10.2	5.2	8.2	11.0	16.5	
	EER2	Btu/W.h	10.0	10.0	9.4	10.0	9.0	
	SEER2	Btu/W.h	19.0	19.0	19.0	19.0	19.0	
	Rated heating capacity	Btu/h	12200	12200	19600	24400	36000	
	Max. heating cappacity @ 5 °F	Btu/h	8600	8600	12000	15100	21100	
Heating	Power Consumption	W	1090	1050	1730	2230	3500	
	Rated Current	Α	9.6	4.7	7.7	10.5	15.2	
	HSPF2	Btu/W.h	8.5	8.5	8.5	8.5	8.5	
	COP2	W/W	3.2	3.2	3.2	3.2	3.0	
NEEP Canada	NEEP Canada		Yes	Yes	Yes	Yes	Yes	
Maximum Fuse Size		Α	30	15	20	30	35	
Maximum Operation Pressure		psig	550	550	550	550	550	
Moisture removal		pint/h	3.4	3.4	4.6	5.5	6.3	
Compressor	Туре		Rotary	Rotary	Rotary	Rotary	Rotary	
Indoor air flow	Hi/Mi/Lo	cfm	383/318/253	383/318/253	606/465/429	847/700/641	847/700/588	
Indoor air circulat	ion	cfm	226/187/149	226/187/149	357/274/253	499/412/378	499/412/346	
Indoor noise level	ndoor noise level Turbo/High/Med./Low/Mute		42/39/34/29/27	41/39/34/29/27	50/48/43/38/32	51/48/43/38/35	52/49/45/38/36	
	Dimensions (W*D*H)	in	31.92x11.49x8.07	31.92x11.49x8.07	39.76x12.40x8.66	46.93x14.17x10.23	46.93x14.17x10.23	
Indoor unit	Packing (W*D*H)	in	34.84x14.40x10.94	34.84x14.40x10.94	43.15x15.35x11.81	49.80x17.13x13.27	49.80x17.13x13.27	
	Net/Gross weight	lb.	19.8/24.2	19.8/24.2	28.7/35.3	37.5/46.3	38.6/47.4	
Outdoor noise lev	Outdoor noise level		52	51	54	58	63	
	Dimension (W*D*H)	in	28.66x12.01x21.65	28.14x11.42x19.61	30.70x13.74x23.81	33.26x14.96x27.51	35.43x14.17x31.69	
Outdoor unit	Packing (W*D*H)	in	32.20x12.80x21.18	32.20x12.80x21.18	35.03x15.15x25.2	37.79x16.92x29.53	40.47x18.70x33.86	
	Net/Gross weight	lbs.	63.9/70.5	59.5/368.3	73.8/81.5	99.2/110.2	136.7/152.1	
Refrigerant type		OZ	R410-A	R410-A	R410-A	R410-A	R410-A	
Factory Refrigerant precharge		OZ	34.22	34.22	41.62	41.62 51.15		
Factory Pre-charged Refrigernat Line w/Quick-connect		ft	25	25	25	25	25	
Refrigerant piping Liquid side/ Gas side		in	1/4" x 3/8"	1/4" x 3/8"	1/4" x 3/8"	1/4" x 1/2"	1/4" x 5/8"	
	Max. refrigerant pipe length	ft	50	50	65	65	98	
Connection wiring - Stranded. unshielded n x AWC		n x AWG	4×16AWG	4×16AWG	4×16AWG	4×16AWG	4×16AWG	
Control type Type		Wireless remote	Wireless remote	Wireless remote Wireless remote		Wireless remote		
Application Area		sq. ft.	up to 550	up to 550	up to 850 up to 1200		up to 1800	
Poom tomporeture	Indoor (cooling/ heating)	°F	>=62/<=86	>=62/<=86	>=62/<=86	>=62/<=86	>=62/<=86	
Room temperatue	Outdoor (cooling/heating)	°F	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	5~122/-4~86	

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. Always comply with local. state. and national electrical codes.

1 - Minimum recommended line set length: 10ft























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