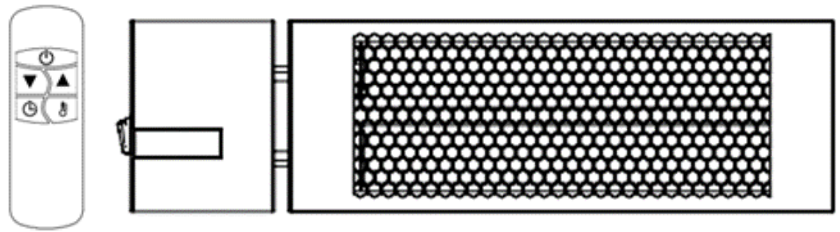
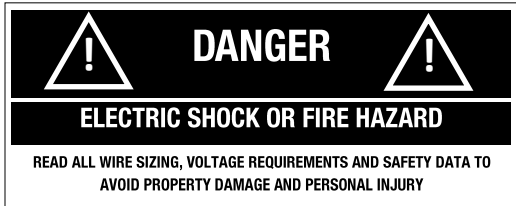


# INSTALLATION AND MAINTENANCE



## Models

RKX2030-RMTX-BLK and RKX2430-RMTX-BLK  
RKX2045-RMTX-BLK and RKX2445-RMTX-BLK



## DO NOT RETURN TO STORE

If you experience any difficulties installing or operating this product,  
Call us at: 206-762-0400 Option 2 or email  
tech@king-electric.com / 7:00am to 3:30pm PST Mon-Fri

## IMPORTANT SAFETY INSTRUCTIONS



## WARNING



**READ CAREFULLY** - Use the heater only as described in this manual. Any other use is not recommended and could result in fire, electric shock, and personal injury. Following these instructions will prevent difficulties that might occur during the installation and use of the heater. Please study the instructions first, as they may save considerable time and trouble during use addition to providing important safety information. Make sure to save these instructions for future use.

- ⚠ WARNING** To prevent a possible electrical shock, disconnect all power coming to heater at main service panel before wiring or servicing.
- ⚠ WARNING** All wiring must be in accordance with the National Electrical Code (Canadian Electrical Code in Canada) and all applicable local codes. The heater must be grounded as a precaution against electrical shock. Supply wiring must be copper and suitable for at least 75° C.
- ⚠ WARNING** Verify power supply and control voltages coming to the heater match the ratings printed on the heater nameplate before energizing.
- ⚠ WARNING** Heater must be installed so the minimum clearances shown in Specifications table are maintained.
- ⚠ WARNING** This heater is NOT suitable for use in hazardous locations as described by the National Fire Protection Association (NFPA). this heater has hot and arcing or sparking parts inside. DO NOT use in areas where gasoline, paint or other flammable liquids are used or stored.
- ⚠ WARNING** The mounting structure and anchoring hardware MUST BE capable of reliably supporting the weight of the heater plus mounting bracket if used. Refer to specifications table for heater weight.
- ⚠ WARNING** To prevent a possible fire, DO NOT block air intakes or exhaust openings in any manner. DO NOT allow foreign objects to enter grill openings as this may cause electric shock, fire or damage to heater.



## CAUTION—RISK OF ELECTRIC SHOCK

DO NOT OPEN HEATER SHELL -NO USER—SERVICEABLE PARTS INSIDE

**FOR RESIDENTIAL & COMMERCIAL USE**

**RATED FOR INDOOR OR WELL PROTECTED OUTDOOR AREAS.**



# SAVE THESE INSTRUCTIONS

## IMPORTANT SAFETY INSTRUCTIONS

**READ CAREFULLY**—The infrared heater is designed for safe operation. Nevertheless, installation, maintenance and operation of the heater can be dangerous. Observing the following procedures will reduce the risk of fire, electric shock, injury to persons and keep installation time to a minimum. Save these instructions for future use.

1. Read all instruction before using this heater.
2. Remove the unit from its packaging and check to make sure it is in good condition before using.
3. Do not let children play with parts of package (such as plastic bags).
4. Check the household voltage to ensure it matches the heater's rated specification.
5. **WARNING: RISK OF FIRE**—Keep combustible materials, such as furniture, paper, clothes, and curtains at least 3 feet (0.9 m) from the front of the heater and away from the sides and rear.
6. Do not install closer than 19.7" (0.5 m) inches to a vertical or horizontal surface. **CAUTION:** Mount with bottom of heater at least 7.9 feet (2.4 m) above floor or grade.
7. Use Copper Wire Only.
8. Extreme caution is necessary when heater is used by or near children or invalids and whenever the heater is left operating and unattended.
9. Do not use near or in the immediate vicinity of a bath or swimming pool or any source of liquid.
10. To protect against electric shock, do not immerse in water or any other liquid.
11. Do not insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause an electric shock, fire or damage.
12. Do not put fingers or foreign objects into the grill while in operation.
13. Do not leave the appliance unattended when in use.
14. This heater is not intended for use in bathrooms, laundry and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
15. No liability can be accepted for any damage caused by non compliance with instructions or any improper use or mishandling.
16. This appliance is not intended for use by persons (including children) with reduces physical, sensory or mental capabilities or lack of experience and knowledge. Supervision is to ensure they do not play with the appliance.
17. No liability can be accepted for any damage caused by non compliance with these instructions or any other improper use or mishandling.
18. This appliance is not intended for use by persons (including children) with reduces physical, sensory or mental capabilities or lack of experience and knowledge. Supervision is to ensure they do not play with the appliance.
19. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
20. To disconnect heater, turn controls to off, and turn off power to heater circuit at main disconnect Panel.
21. To prevent overheating of this appliance, keep the air inlets and outlets clean and free of anything that may cause blockage. Check all inlets and outlets from time to time to ensure it is clear of any dirt or dust accumulation. **DO NOT COVER.** To prevent a possible fire, do not block air intakes or exhaust in any manner.
22. A heater has hot and arcing or sparking parts inside. To reduce the risk of fire, do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
23. Parts of the heater may exceed 392F. Contact with the heating tube, reflector, or metal parts near the heating tube, may cause severe BURNS. Do not touch heater when in use.
24. **NEVER** place hands under the heating elements. **ALWAYS** allow heating element to cool at least 10 minutes before touching the heating tube or adjacent parts.
25. This product contains recyclable materials. Do not dispose this product as unsorted municipal waste. Please contact your local municipality for the nearest collection point.

## SAVE THESE INSTRUCTIONS

## SAVE THESE INSTRUCTIONS

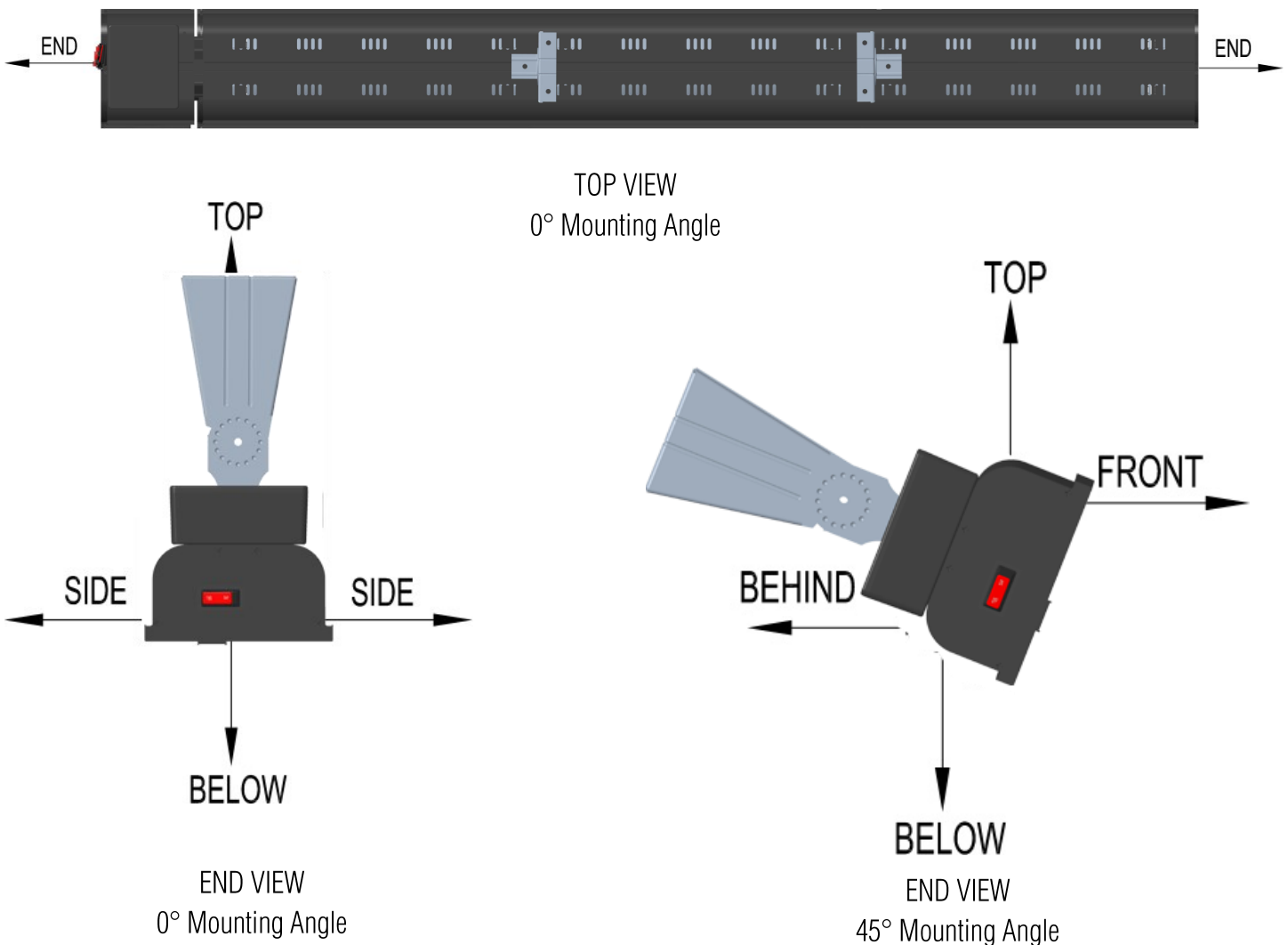
# MINIMUM CLEARANCES TO COMBUSTIBLES

### Minimum Clearances to Combustibles in Inches

Mounting Angle	[-----Side-----]		End	Top	Below	Min. Mtg. Height
	Front	Behind				
0°	1'7"	1'7"	1'7"	9.4"	7'9"	7'9"
45°	3'3"	6.5"	1'7"	6.5'"	7'9"	7'9"

**NOTE:** Ensure that building materials with a low heat tolerance (i.e., awnings, fabrics, plastics, sprinklers, insulation, etc.) are protected against degradation. This may require the heater to be mounted at a distance in excess of the published clearances to combustibles. Contact the material manufacturer for specific details of safe temperatures.

### Clearances to Combustibles Figure 1



## INSTALLATION

### Heating Application Chart

Series	Heater Wattage	Lamp Quantity	Minimum Mounting Height (Ft)	Recommended Mounting Height [Dim. A]	Recommended Distance Between Heaters (Ft)* [Dim. B]
RKX	3000W	2	7'9"	9' to 10'6"	7' to 14'
RKX	4500W	3	7'9"	10'6" to 11'6"	9' to 18'

**NOTE:** Minimum Clearances to combustibles published in this manual and on safety labels must be maintained at all times. Factory recommended mounting heights are listed as a guideline. If infrared heaters are mounted too low or too high, they may result in discomfort or lack of heat. Test surrounding materials to verify that nothing is getting hotter than expected.

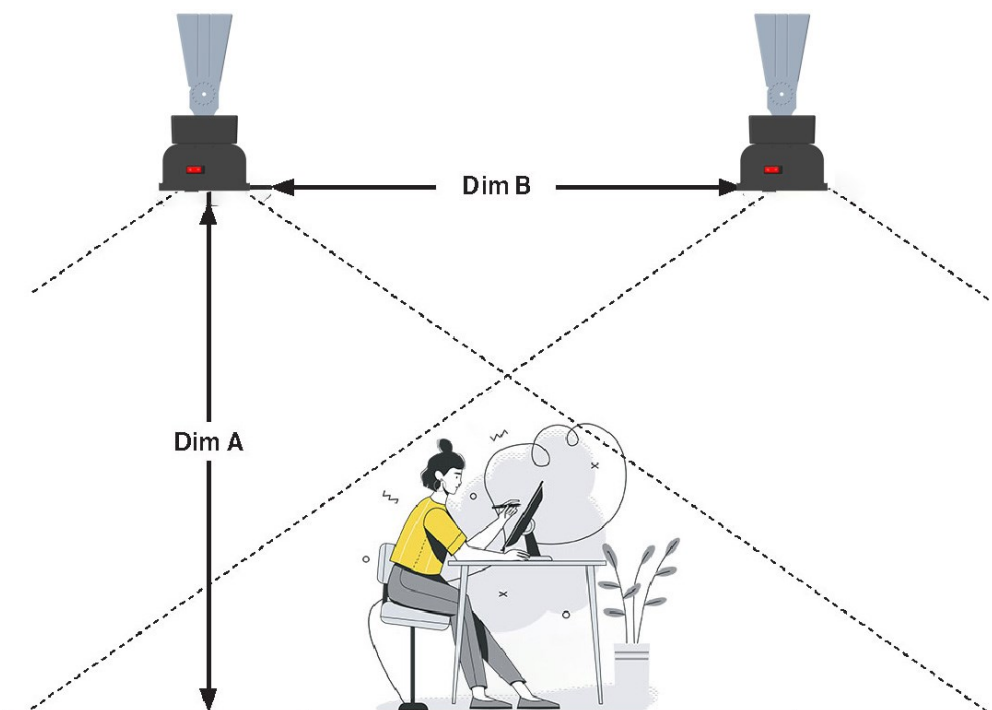
### Coverage Area Chart

Series	Heater Wattage	Lamp Quantity	AVERAGE Coverage Of Heater Length X Width (Ft.)	*COLD/WINDY Coverage Of Heater Length X Width (Ft.)	**PROTECTED Coverage Of Heater Length X Width (Ft.)
RKX	3000W	2	8' x 8'	6' x 6'	10' x 10'
RKX	4500W	3	10' x 10'	8' x 8'	12' x 12'

**NOTES:** \*Heaters can provide less than average coverage in extremely cold/windy conditions.

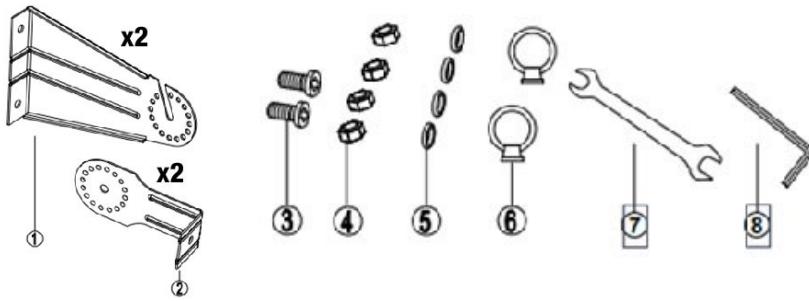
\*\*Indoor or well-protected environments will generally exceed average coverage areas.

### Heating Application Diagram



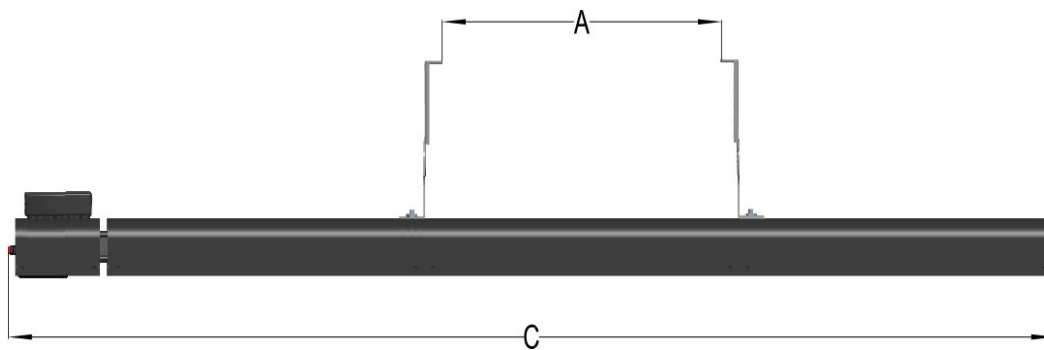
# SAVE THESE INSTRUCTIONS

## INSTALLATION ACCESSORIES LIST



1	Bracket - Large	L shape	2 PCS
2	Bracket - Small	L shape	2 PCS
3	Bolt	M6mm*12mm	2 PCS
4	Nut	M6	4 PCS
5	Washer		4 PCS
6	Eye Nut	M6	2 PCS
7	Crescent Wrench		1 PC
8	Allen- Hex Key		1 PC

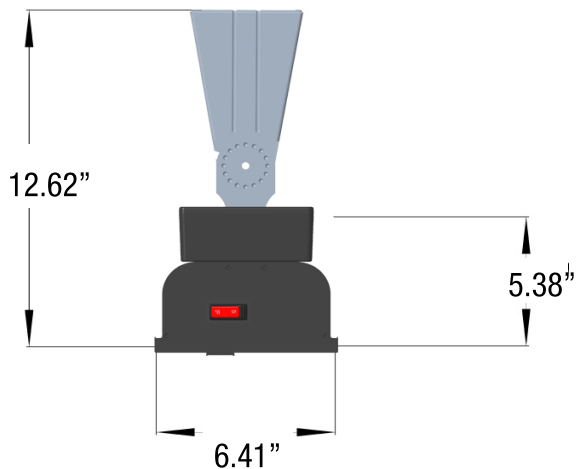
## HEATER DIMENSIONS



Mount Heater Level  
-End to End-



Series	A	C
RKX - 1 Lamp	7.5" - 8.25"	24"
RKX - 2 Lamps	13.4" - 14.2"	42.3"
RKX - 3 Lamps	19.7" - 20.5"	60.7"

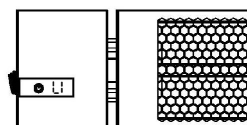


### Mounting Bracket Dimensions

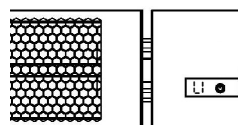


## INSTALLATION ORIENTATION

SmartWave Heaters feature a built-in position sensor, allowing for the heater to be installed with the junction box (wiring) on either side of the heater. The LCD display will automatically rotate 180° to guarantee the display is legible regardless of which side the junction box is located.



Junction Box - Left

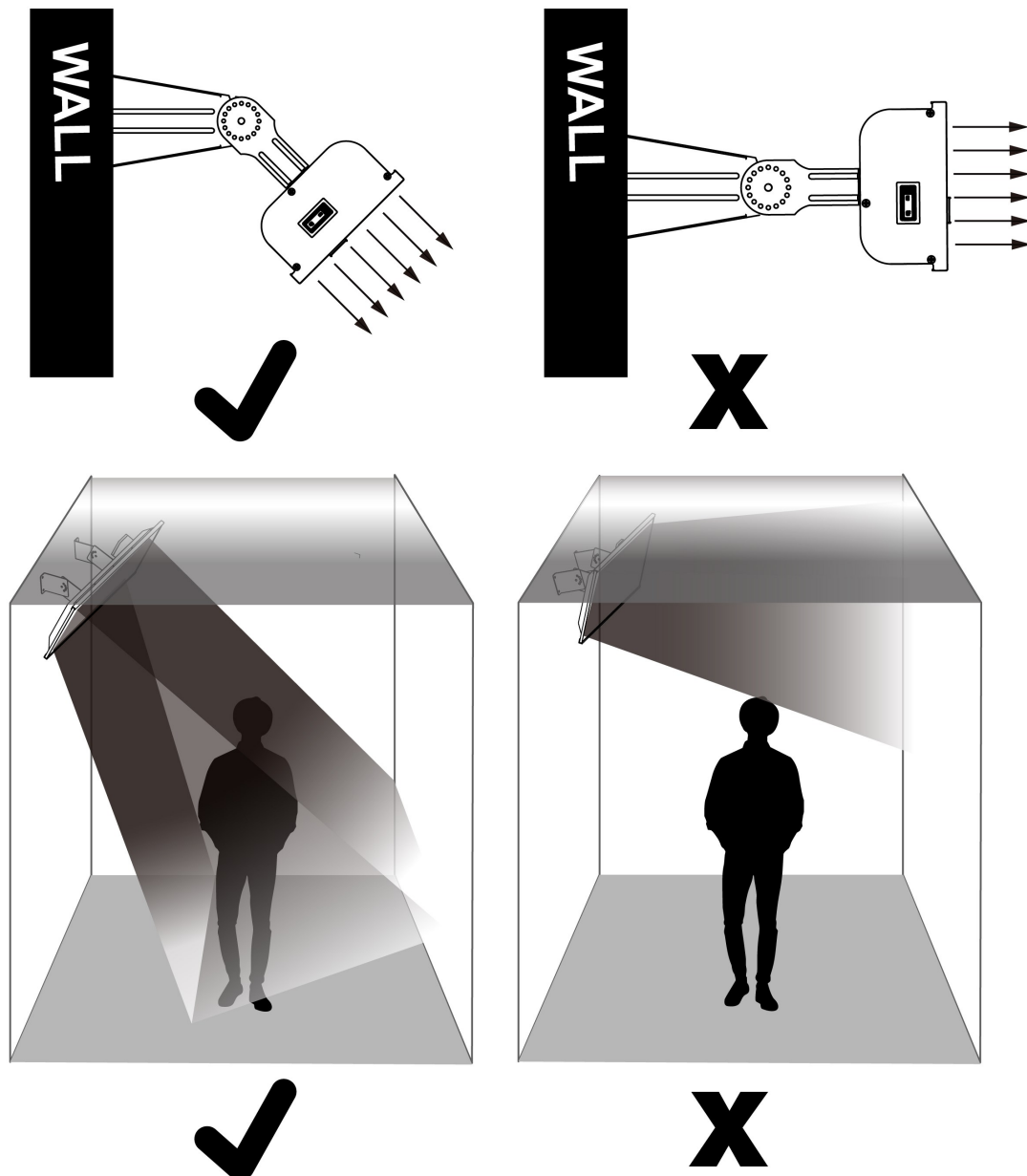


Junction Box - Right

**SAVE THESE INSTRUCTIONS**

**IMPORTANT SAFETY INSTRUCTIONS**

**Correct Installation Position - 01**



**Note:** Mounted angle with 30°- 45 °.

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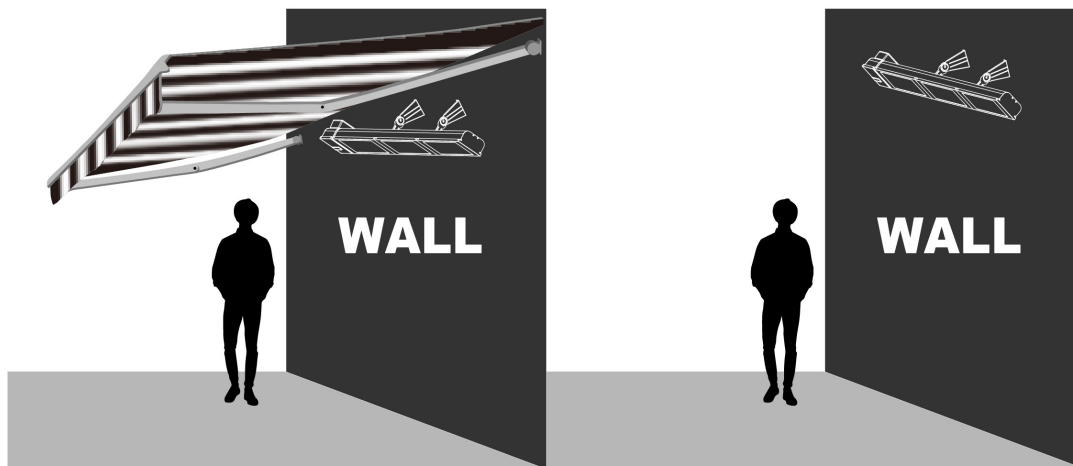
**SAVE THESE INSTRUCTIONS**

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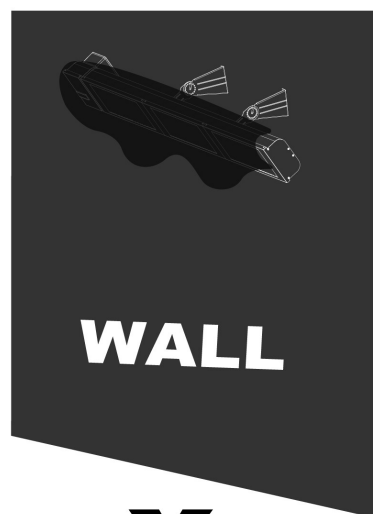
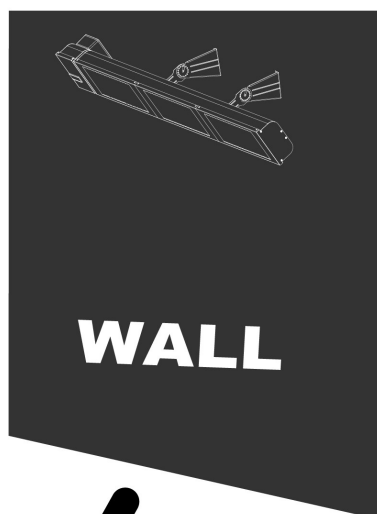
**IMPORTANT SAFETY INSTRUCTIONS**

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**Correct Installation Position - 02**



**Note:** Heater should be wall or ceiling mounted under well protected environments, at least keep 3feet (0.9m) away from any combustibile objects.



**Note:** Do not cover.

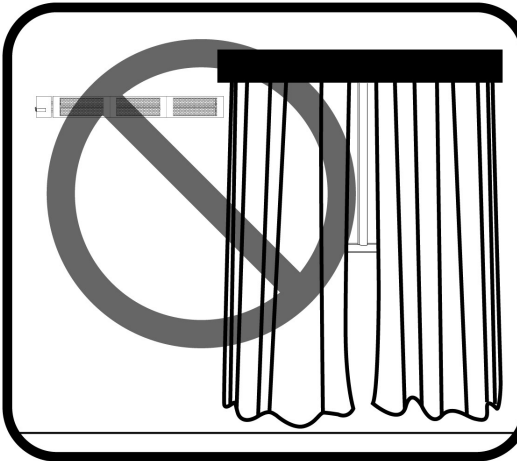
## SAVE THESE INSTRUCTIONS



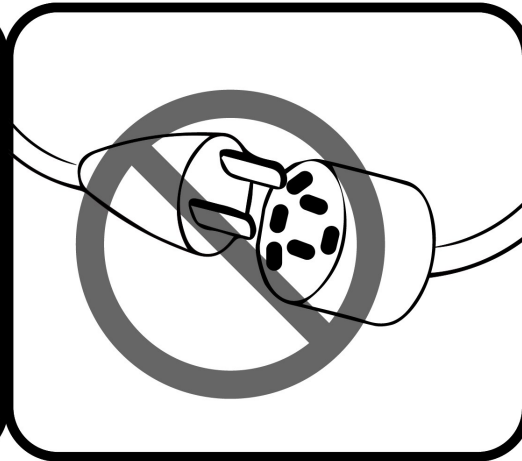
### WARNING



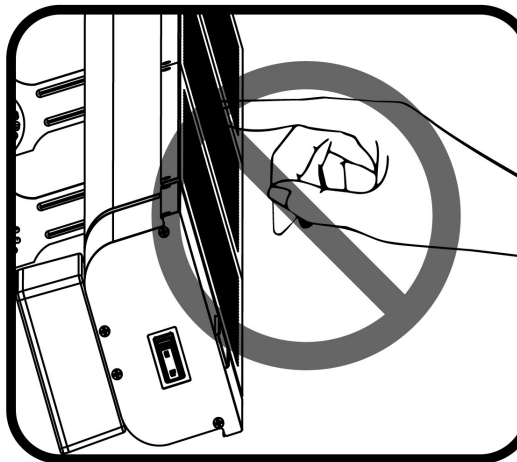
#### Warning - to reduce the risk of fire



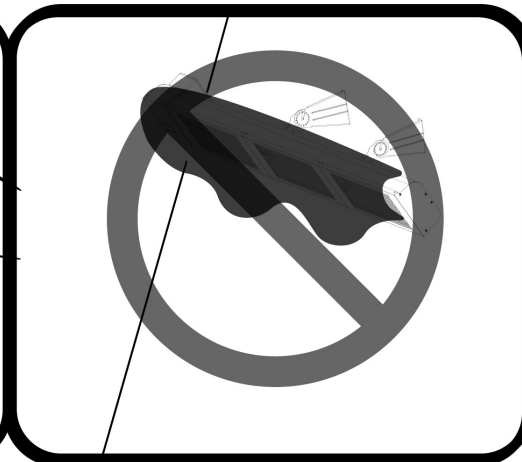
**Caution:** Keep combustible materials, such as furniture, pillows, curtains at least 3feet (0.9m) from the front of the heater and keep them away from the sides and rear.



**Caution:** Do NOT use with an extension cord or relocatable power tap (outlet/power strip).



**Caution:** Hot surface, do NOT touch.



**Caution:** Do NOT cover with any objects such as blanket on the heater.



## SAVE THESE INSTRUCTIONS

### MODEL CHART

King Model	Volts	Phase	Wattage	Lamps	Amps	Accessory	Circuit Size	Product Size	Wt. (LBs)
RKX2030-RMTX-BLK	208	1	3000	2	14.4	RF Remote Control	Use only on 20 Ampere Branch Circuit	42.6" x 6.5" x 5.25"	10.2
RKX2430-RMTX-BLK	240	1	3000	2	12.5	RF Remote Control	Use only on 20 Ampere Branch Circuit		
RKX2045-RMTX-BLK	208	1	4500	3	21.6	RF Remote Control	Use only on 30 Ampere Branch Circuit	60.75" x 6.5" x 5.25"	14
RKX2445-RMTX-BLK	240	1	4500	3	18.8	RF Remote Control	Use only on 25 Ampere Branch Circuit		

## INSTALLATION INSTRUCTIONS

**CAUTION** - High temperature, risk of fire, keep electrical cords, drapery, furnishings, and other combustibles at least 3 feet (0.9m) from the front of the heater and away from the side and rear.

To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater. Wiring procedures and connections shall be in accordance with the national and local codes having jurisdiction.

### TOOLS NEEDED-

#### Pencil, Hammer, Level, Screw-Driver, Power Drill & Drill Bits

A wall mounting bracket is provide with the heater which has been specifically designed to allow this product to be secured to a wall or a ceiling. Before drilling any holes, check that the wall or ceiling is solid and that there are no hidden water pipes or electric wires. The heater must be installed no less than 1'7" from side walls and no less than 7'9" off the floor.

**Caution:** Select appropriate mounting bolts and anchors for your application.

**ATTENTION!** The appliance must be installed on the solid surfaces like concrete, wood or metal etc.

**Important:** Ensure that the supply cable is well secured and that it does not come into contact with reflector of the heater or that it does not lay inside the heated area. The supply cable can be fixed to the metal mounting bracket behind heater with plastic zip ties.

1. This heater should be installed by a competent person, i.e. a qualified electrician.
2. Always disconnected the heater from the electricity supply and allow it to cool before installation.
3. For ceiling mounting, the lowest part of the heater must be located at or above a minimum height of 7'9" from ground level, so that the heater can not be touched when in operation.
4. For ceiling mounting, there must be a 7'9" distance from your appliance to the ground.
5. When mounted to the ceiling, there must be a distance of 1'7" between side walls and the appliance.

6. Always maintain a minimum distance of 3'3" from the appliance to people.

7. The distance from the front side of the heater to materials such as wood, carton, cloth etc., must be a minimum of 3'3".

8. When mounting to a ceiling, do not position the heater at an angle more than 90° or less than 45°.

9. The supply cable must be at the lower end of the heater if the heater is installed at an angle.

10. Keep the supply cord away from the body of the heater which will get hot during use.

11. Do not install the heater on an flammable surface.

12. Observe the minimum safe distance between the heater body and flammable surfaces when mounted.

13. The heater should always have a minimum clearance of 1'7" from a ceiling and adjacent walls.

14. If the heater is to be used outside, a weatherproof outlet is recommended.

15. Before drilling ensure that there are no wires or water pipes in the area where the heater is to be installed.

16. The heater must be installed on the mounting brackets provided.

17. Fasten the brackets securely to the mounting surface and the backside of the heater using the nuts and screws supplied.

18. Fasten the heater securely on the brackets using the nuts and bolts supplied.

**RATED FOR INDOOR OR WELL PROTECTED OUTDOOR AREAS.**

### FCC INFORMATION

**Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user should try to correct the interference by one or more of the following measures:

- ☒ Reorient or relocate the receiving antenna.
- ☒ Increase the separation between the equipment and receiver.
- ☒ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☒ Consult the dealer or an experienced radio/TV technician for help.

**Note:** Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

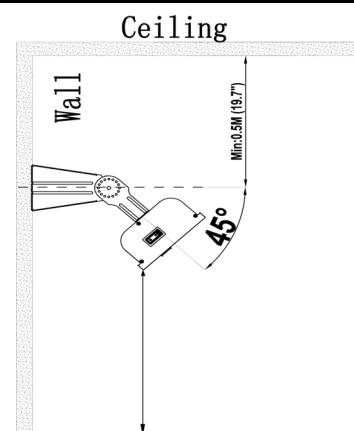
**Note:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### ATTENTION!

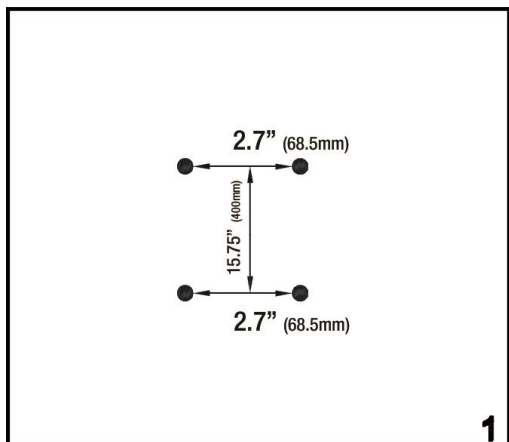
1. Always disconnect the heater from the electricity supply and allow it to cool before attempting to work on it.
2. If the heater has collected dust or dirt inside the unit or around the heating element, have the unit cleaned by a qualified service agent.
3. The only maintenance required is cleaning of the external surfaces of the heater.
4. Do not touch the heating element with bare fingers, as residue from your hand could affect the life of the lamp.  
If it is accidentally touched, remove the finger marks with a soft cloth moistened with mentholated spirit or alcohol.
5. Do not attempt to repair or adjust any electrical or mechanical functions on this heater.
6. The heater contains no user serviceable parts. Should the product suffer damage or breakdown, contact manufacturer.
7. Damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person in order to avoid hazard.
8. The heater must be properly installed before it is used.

### WALL MOUNT GUIDE

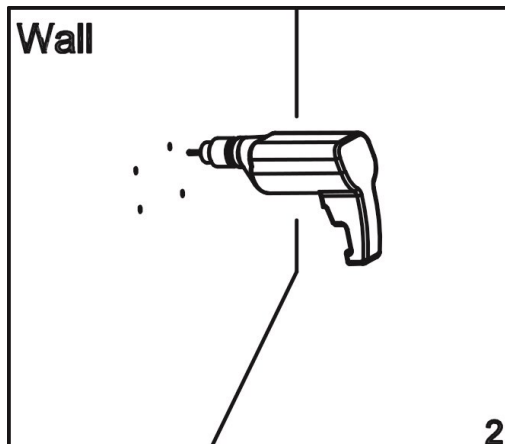
**CAUTION:** Select the suitable screw according to the heater weight/different model. Angle of reflector no more than 45°.  
The heater must be installed at least 7'9" above the floor.



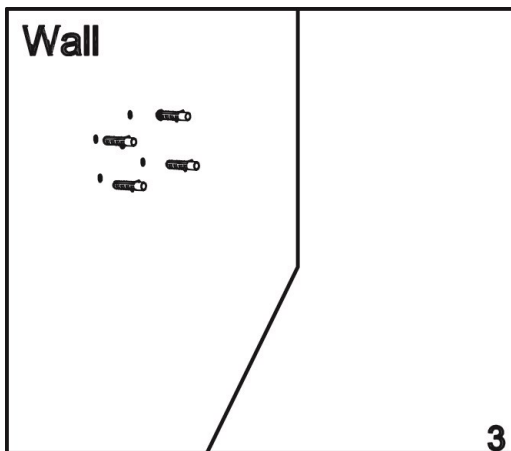
# WALL MOUNT INSTALLATION STEPS



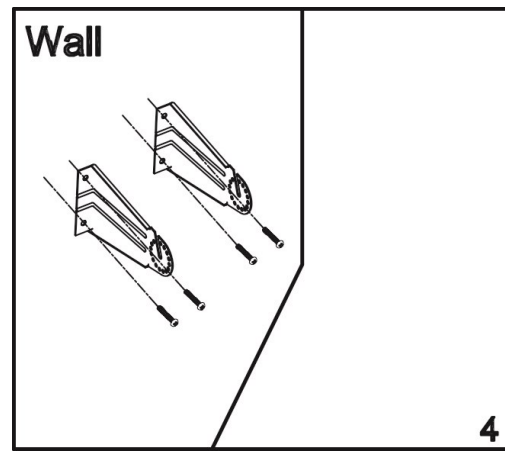
**Step 1:** Mark hole locations on the mounting surface with spacing as shown.



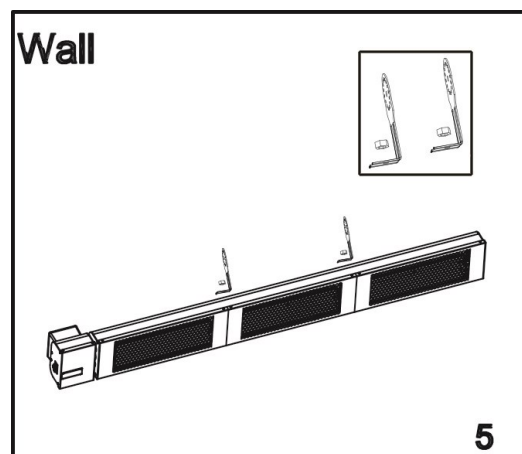
**Step 2:** Select fasteners and anchors of appropriate type sufficient for your specific wall type (Not provided). Drill holes on your indicator marks.



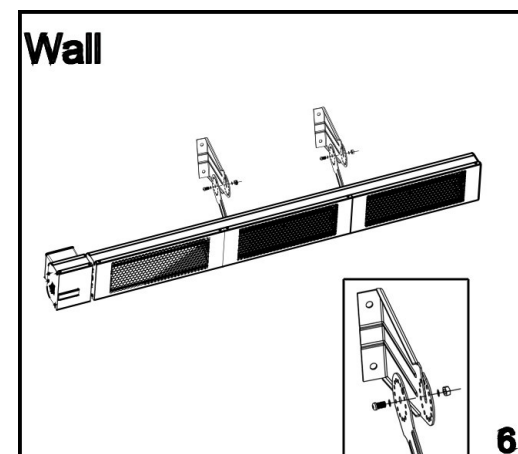
**Step 3:** Insert wall anchors into holes.



**Step 4:** Secure wall brackets to wall using 2 screws each. Make sure fasteners are suitable for your application.



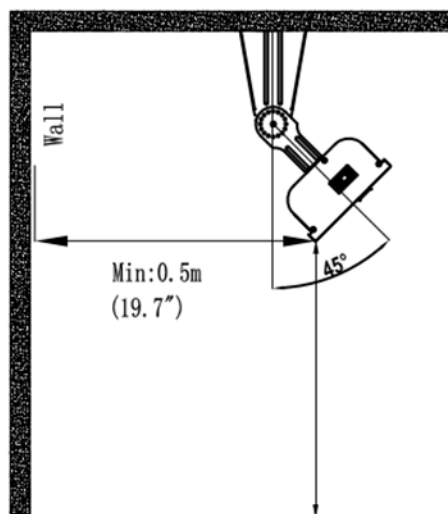
**Step 5:** Secure small brackets to heater using the supplied Eye Nuts. Then insert a bolt through hole in each small bracket and begin threading a nut onto end with a few threads of engagement.



**Step 6:** Hang heater onto wall mounted brackets by inserting the bolts through the vertical slot in the bracket and then tighten nuts completely to secure in place at the desired angle.

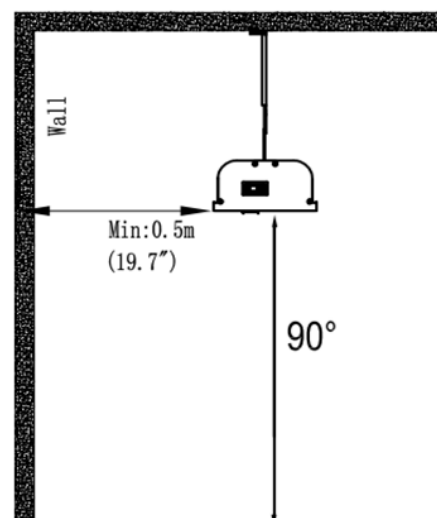
# SAVE THESE INSTRUCTIONS

## CEILING MOUNT GUIDE



**CAUTION:** Select the suitable screw according to the heater weight/different model.

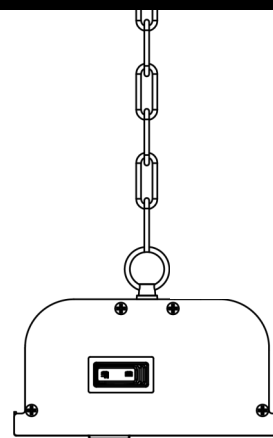
The heater must be installed at least 7'9" above the floor grade



## CHAIN MOUNT INSTALLATION

1. Use only noncombustible materials for suspending hangers and brackets.
2. A minimum No. 2 chain with a working load limit of 115 lbs. is required.
3. Secure chain to heater using the provided eye nuts as attachment points.
4. Heaters must not be supported by electric supply lines and must be suspended from a permanent structure with adequate load capacity.

**CAUTION:** Select the suitable screw according to the heater weight/different model. The heater must be installed at least 7'9" above the floor grade



## INSTALLATION INSTRUCTIONS

This heater must be permanently installed and hard wired by a licensed electrician in accordance with local electrical codes. Assembly procedure must be performed with no electrical power to unit.

Step 1: Check UL/CUL label on heater for proper voltage.

Step 2: Follow supplied wiring instructions. (See wiring instructions below)

Step 3: Heater must be mounted with reflector angled down.

Step 4: All electrical connections must be in compliance with the National Electric Code (NEC) and local codes for outdoor wiring.

Step 5: Use only wiring components UL/CUL listed for outdoor use with IPX4 minimum rating.

### WIRING INSTRUCTIONS

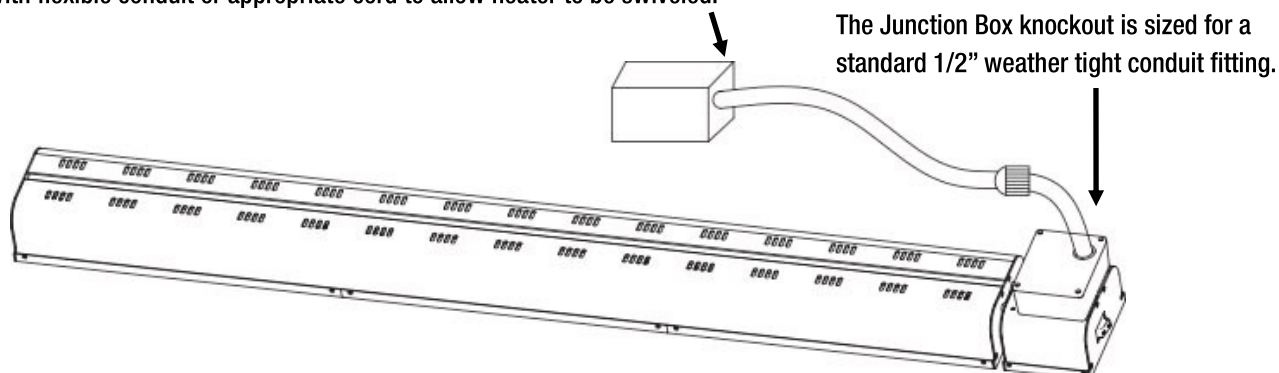
The heater has provisions for standard 1/2" conduit fittings. The installing electrician will need to provide the appropriate rigid metallic, flexible or liquid tight conduit for the installation location.

- Observe local electrical code regulations.
- Remove cover plate from junction box.
- An Additional junction box may be required if more space is needed.
- Attach conduit.
- Use only copper wire suitable for 90°C.
- Replace cover plate.

# SAVE THESE INSTRUCTIONS

## INSTALLATION INSTRUCTIONS

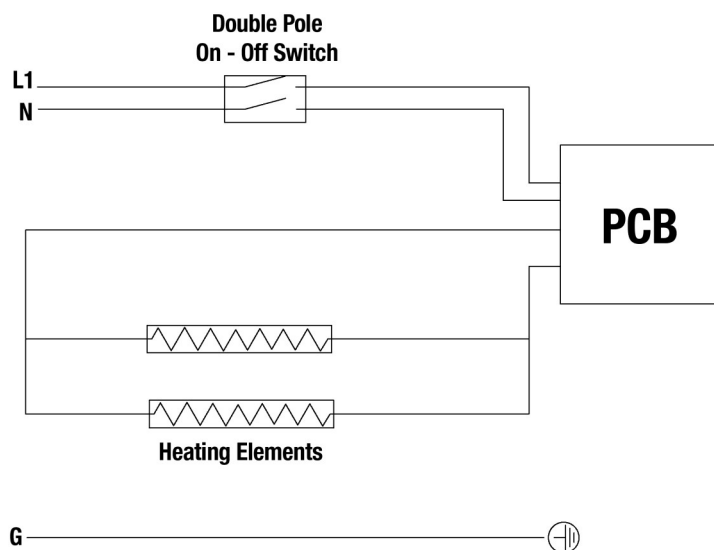
Connect power with flexible conduit or appropriate cord to allow heater to be swiveled.



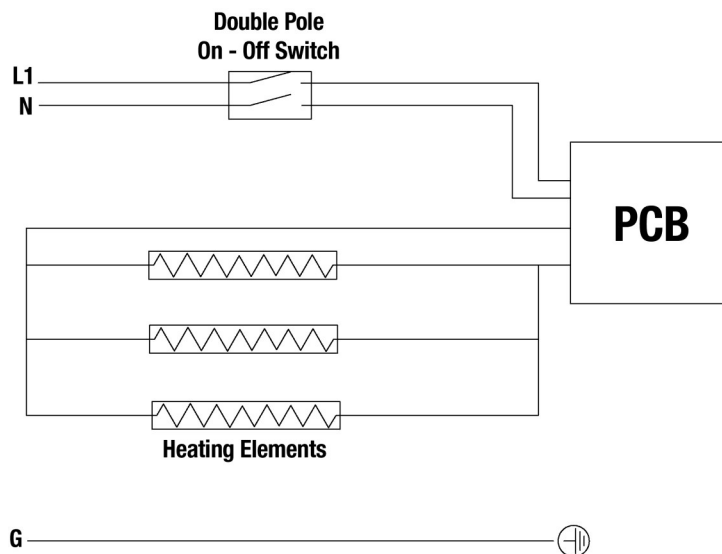
**NOTE:** You maybe required to add an additional junction box to the wiring box if additional wires are installed.

## WIRING DIAGRAMS

### 3000W Models



### 4500W Models



## OPERATION NOTES

### Auto-Shutoff - 24 Hour Power Save Feature

After 24 hours (1 day) of continuous power, SmartWave will automatically shut down and return to the standby state. The LCD will display "--", and the buttons or remote control can be operated normally.

### "LE" Error Code -

This heater is equipped with a thermal overload device which disconnects elements in the event max normal operating temperatures (185F) are exceeded. The unit will return to the standby mode and the LCD will display "LE" error code.

The unit will not turn back on until the temp drops below 167F degrees. Inspect for any objects on or adjacent to heater that may cause high temps.

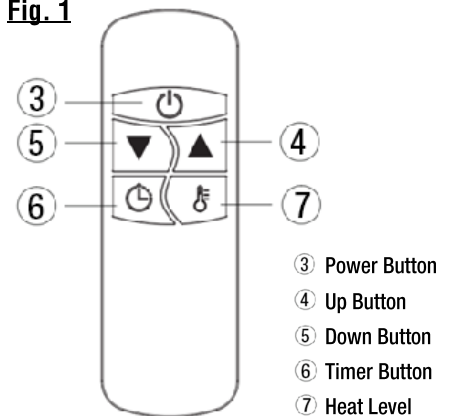
## SETUP STEP #1: PAIRING RF REMOTE TO THE HEATER

RKX heaters use a Radio Frequency (RF) Remote that must be paired to the heater prior to use. It is possible to create a heating zone by pairing more than one heater to a single remote. RF remote do not have to be aimed at the heater to operate the heater.

### PAIRING AND USEAGE GUIDE

Since it is possible that more than one RKX heater could be used in a single application, you must first pair the RF Remote to a specific heater. Each RF Remote has a unique ID number, which will be used in the pairing process. When installing the RKX Heater the first time, users need to pair the RF Remote with a heater, so the heater can learn and save the remote control's ID.

**Fig. 1**



- Step 1:** Power OFF the RF Remote (remove the batteries).
- Step 2:** Power ON the SmartWave Heater.
- Step 3:** Put the RF Remote within 3' of the heater and press ▲ button 5 times continuously. The heater will beep once, indicating that pairing has completed.

## CREATE A HEATING ZONE - Control Multiple Heaters

A zoned heating system allows users to control multiple heaters in a single area or heating zone as a group. A single RF Remote can be paired to multiple heaters, creating a Heating Zone that is controlled by that remote. All heaters in this zone will be synchronized to the controls established by that remote.

**IMPORTANT:** To ensure heaters remain synced, it is important to wait a few seconds for the RF signal to be transmitted and received after pressing a button on the remote, before pressing a button again.

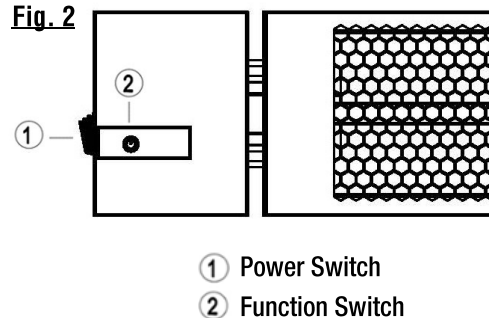
### Creating a Heating Zone

- Step 1:** Follow the Pairing and Usage setup instructions (above) to pair the first heater (Heater A) in the zone.
- Step 2:** After pairing the first heater (Heater A), turn power switch (1) OFF on Heater A. Power on Heater B and repeat steps to pair the next heater additional heater.
- Step 3:** Repeat steps above for each additional heater to be added to the heating zone.
- Step 4:** Once all heaters are paired. Turn power switch (1) ON for all heaters in the heating zone.
- Step 5:** Operation: All heaters within this heating zone are now synchronized and will operate based on input of this single remote. Any changes made to will effect all heaters in this zone.

**Notes:** A maximum of 20 heaters can be paired to a single RF remote.

The expected range of the RF remote is up to 65 Feet.

**Fig. 2**



- ① Power Switch  
② Function Switch

# SAVE THESE INSTRUCTIONS

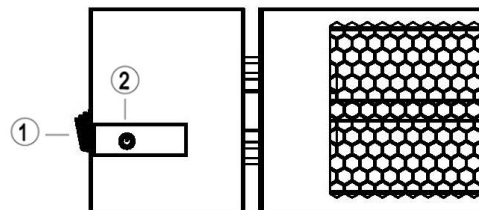
## OPERATING INSTRUCTIONS

### Heater Onboard Control Functions: (Fig. 1)

For Models: RKX2030 / RKX2430 / RKX2045 / RKX2445

1. **POWER SWITCH:** Turns on Standby mode; display shows (- -);
2. **FUNCTION BUTTON:** Press button to select Heat Levels (L1- L2 - L3 - Standby - Off)  
L1 = 1500W / L2 = 2400W / L3 = 3000W

Fig. 1



- ① Power Switch
- ② Function Switch

### RF Remote Control Instructions (Fig. 2)

For Models: RKX2030 / RKX2430 / RKX2045 / RKX2445

3. **POWER BUTTON:** Turns the heater On/Off.
4. **UP BUTTON:** Increases Timer or Heat level.
5. **DOWN BUTTON:** Decreases Timer or Heat level.
6. **TIMER BUTTON:** Press to Select Timer Mode
7. **HEAT LEVEL BUTTON:** Press to Select Heat Mode

Press the Heat Level button, then use the Up and Down buttons to increase or decrease the heat level. (L1 - L2 - L3)

Models RKX2030 / RKX2430 : L1 = 1500W / L2 = 2400W / L3 = 3000W

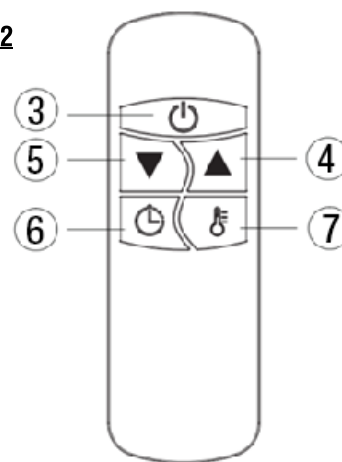
Models RKX2045 / RKX2445: L1 = 1500W / L2 = 3000W / L3 = 4500W

**TIMER FUNCTION:** Press Timer button to set the timer. Timed Options include **90 min, 60 min, 45 min, 30 min, 20 min, 10 min, or 00 minutes**. 90 Minutes is factory default. Use Up or Down buttons to increase or decrease the timer length.

#### Notes:

1. The LCD display will show the set timer duration temporarily. After 3 seconds, it will return to the current heat level display.
2. Heat level can be changed while in timer mode without effecting timer duration.
3. To check remaining time, press Timer button to display temporarily for 5 seconds.
4. To cancel Timer, press the Heat Level button to return to the Heat Level mode or the Power button to turn heater off.

Fig. 2



- ③ Power Button
- ④ Up Button
- ⑤ Down Button
- ⑥ Timer Button
- ⑦ Heat Level Button

#### PERMANENT TIMER OPTION:

**This heater can be preset so that a timer starts automatically whenever the heater is turned on.**

Press and HOLD the Function Switch button (2) on the heater for 10 seconds. Permanent Timer settings are saved and the heater will automatically start a timer when powered on. Timer duration can be changed and changes will be saved as the default when heater is powered up.

To cancel the Permanent Timer Feature and revert back to normal operation, Press and HOLD the Function Switch button (2) on the heater for 10 seconds.

## INSERTING BATTERIES IN REMOTE

#### Insert 2 AAA/ Alkaline type batteries into your RF Remote Control

1. Remove the battery cover from back of remote. Insert the batteries in accordance with the instructions and polarity of the batteries.
2. Change the batteries in the same way described above.

**NOTICE:** Replace old batteries with the same battery type. Remove batteries when heater is not used for long periods of time to prevent leakage which may damage the remote. Do not allow water or liquids to get into the remote control.

#### CAUTION:

When the appliance is not operated for a long period of time, when cleaning or maintenance is conducted or when the location of the heater is changed, the heater should be turned to OFF and unplugged from the electrical connection.

## SAVE THESE INSTRUCTIONS

### TROUBLE SHOOTING

1. Check and verify the power at the main circuit breaker functioning correctly.
  2. Error code shows on display
- E1 Error on display: Control unit overheated. Cool down the heater for 1 hour and then restart heater.
- L1,2 shows in display, but no heat: Bulb is damaged. Arrange for replacement bulb with local Dealer.

### MAINTENANCE

**ATTENTION!** Careful and regular maintenance of your heater is important to achieve long, efficient operation of your appliance.

Except below, all other servicing should be performed by a qualified service professional.

1. Before maintenance is performed, make sure the power has been turned off at the circuit breaker panel and the heating elements are cool.
2. Check the Reflector and IR-Filament at least once a month. If cleaning is necessary, follow the below cleaning and maintenance instructions.
3. Check more frequently if the unit is installed in a dusty environment.
4. Visually inspect the Reflector, Wire and Frame for any damage while cleaning the appliance.
5. Check the Power Cord and Plug visually while cleaning the appliance. In case of deformation, consult to your technical service.

### CLEANING

**Regular and careful cleaning helps your infrared heater operate efficiently for many years of trouble-free operation. To clean your heater follow steps below:**

1. Before cleaning, make sure the power has been turned off at the circuit breaker panel and the heating elements of the heater are cool.
2. Make sure the heater is cool before continuing.
3. To keep the heater clean, the outer shell maybe cleaned with a soft, damp cloth. You may use a mild detergent if necessary. After cleaning, dry the unit with a soft cloth. (CAUTION: DO NOT let liquids enter the heater).
4. DO NOT use alcohol, gasoline, abrasive powders, furniture polish or rough brushes to clean the heater. This may cause damage or deterioration to the surface of the heater.
5. DO NOT immerse the heater in water
6. Wait until the heater is completely dry before use.

**Storage: Store the heater in a cool, dry location when not in use to prevent dust and dirt build up. Use packaging carton to store.**

### RECYCLING

At the end of the electrical products useful life it should not be disposed of with household waste.  
Please recycle at an appropriate recycling center.