# **INSTALLATION AND MAINTENANCE**



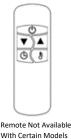
Model RK1215-RMT-PLG-BLK

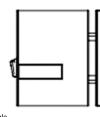


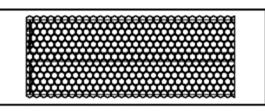




READ ALL WIRE SIZING, VOLTAGE REQUIREMENTS AND SAFETY DATA TO AVOID PROPERTY DAMAGE AND PERSONAL INJURY







### 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**



**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.

**A WARNING** To prevent a possible electrical shock, disconnect all power coming to heater at main service panel before wiring or servicing.

**A** WARNING All wiring must be in accordance with the National Electrical Code (Canadian Electrical Code in Canada) and all applicable local codes.

**A** WARNING Verify power supply and control voltages coming to the heater match the ratings printed on the heater nameplate before energizing.

**A WARNING** Heater must be installed so the minimum clearances shown in Specifications table are maintained.

**AWARNING** 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.

**AWARNING** 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

RATED FOR INDOOR OR WELL PROTECTED OUTDOOR AREAS.

Rev 6.7.22

# **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 minimums. Save these instructions for future used.

- 1. Read all instruction before using this heater.
- 2. Remove the unit from it's 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. Check the power cord and plug carefully before use, to make sure that they are not damaged.
- 6. Before unplugging the power cord, be sure to turn off the power, when energizing the unit, be sure your hands are dry to prevent from electric shock.
- 7. **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.
- 8. Do not install closer than 19.7" (0.5 m) inches to a vertical surface. **CAUTION:** Mount with bottom of heater at least 7.9 feet (2.4 m) above floor or grade.
- 9. This heater is very hot when in use. To avoid burns, do not let bare skin touch hot surfaces.
- 10. Extreme caution is necessary when heater is used by or near children or invalids and whenever heater is left operating and unattended
- 11. Do not use near or in the immediate vicinity of a bath or swimming pool or any source of liquid.
- 12. To protect against electric shock, do not immerse cord or plug in water or any other liquid.
- 13. Do not insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause an electric shock, fire or damage.
- 14. Always unplug the heater when not in use.
- 15. Connect to properly grounded outlets only.
- 16.. Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip).
- 17. Do not allow cord to overhang the counter top where it can be easily pulled by children.
- 18. Do not put fingers or foreign objects into the grill while in operation.
- 19. Do not leave the appliance unattended when in use.
- 20. 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.

- 21. No liability can be accepted for any damage caused by non compliance with these instructions or any other improper use or mishandling.
- 22. 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.
- 23. 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.
- 24. Do not operate any heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- 25. Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.
- 26. To disconnect heater, turn controls to off, and turn off power to heater circuit at main disconnect Panel.
- 27. 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.
- 28. 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.
- 29. 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.
- 30. 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.
- 31. 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**

KING ELECTRIC MFG CO  $\cdot$  9131 10TH AVENUE SOUTH  $\cdot$  SEATTLE, WA 98108  $\cdot$  PH:206 762 0400  $\cdot$  FAX: 206 763 7738  $\cdot$  www.king-electric.com

# MINIMUM CLEARANCES TO COMBUSTIBLES

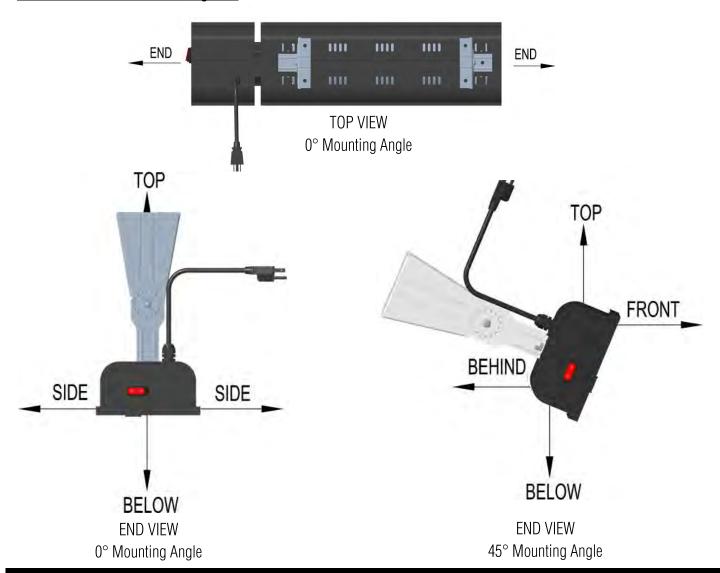
#### Minimum Clearances to Combustibles in Inches

	Side					Min. Mtg.
Mounting Angle	Front	Behind	End	Top	Below	Height
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.

**WARNING**: Risk of Fire - Keep combustibles such as furniture, paper, clothes and curtains are least 3 feet (0.9m) from the front of the heater and away from the sides and rear. Do not install closer closer than 39.4 inches (1 m) to a vertical surface.

#### Clearances to Combustibles Figure 1



# **INSTALLATION**

### **Heating Application Chart**

					Recommended
				Recommended	Distance Between
	Heater	Lamp	Minimum Mount-	Mounting Height	Heaters (Ft)*
Series	Wattage	Quantity	ing Height (Ft)	[Dim. A]	[Dim. B]
RK	1500W	1	7'9"'	8' to 9'	5' to 10'

**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.

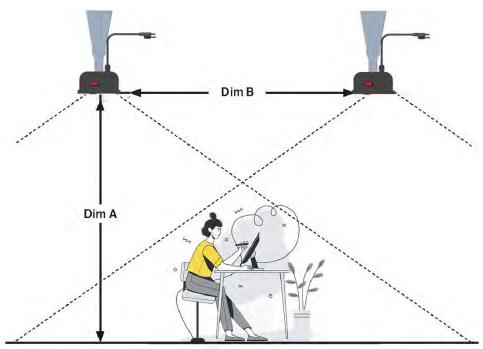
If infrared heaters are mounted too low or too high, they may result in discomfort or lack of heat.

### Coverage Area Chart

			AVERAGE	*COLD/WINDY	**PROTECTED
	Heater	Lamp	Coverage Of Heater	Coverage Of Heater	Coverage Of Heater
Series	Wattage	Quantity	Length X Width (Ft.)	Length X Width (Ft.)	Length X Width (Ft.)
RK	1500W	1	5' x 5'	3' x 3'	7' x 7'

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

### **Heating Application Diagram**

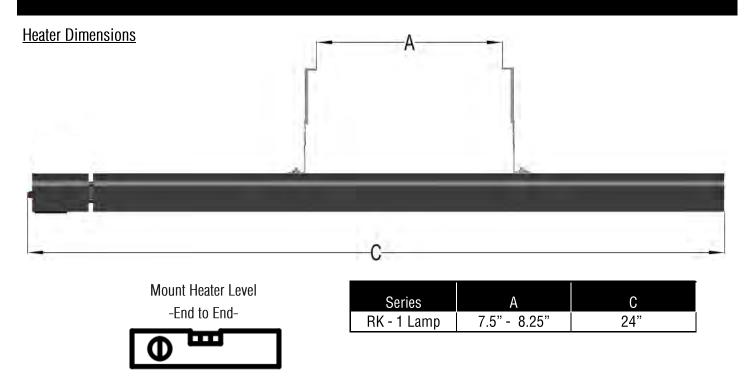


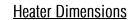
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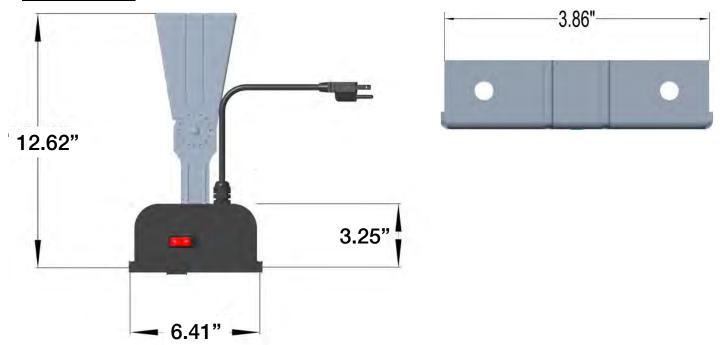
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<sup>\*\*</sup>Indoor or well-protected environments will generally exceed average coverage areas.

# **INSTALLATION**







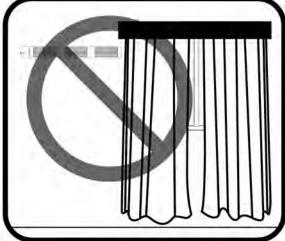
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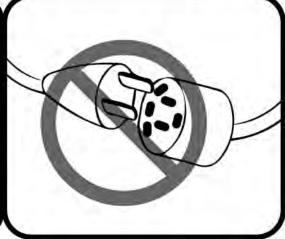
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# **<u>^</u>** WARNING

# $\triangle$

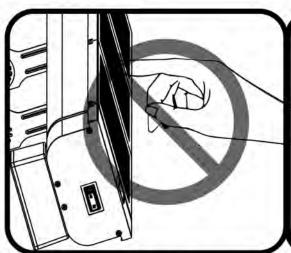
# Warning - to reduce the risk of fire

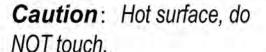




**Caution**: Keep combustible materials, such as furniture, pillows, curtains at least 3feet (0.9m) from the front of the heater and keep them away from the sides and rear.

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







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

# **MODEL CHART**

King Model	Volts	Phase	Wattage	Lamps	Amps	Accessory	Product Size	Weight (Lbs)
RK1215-RMT-PLG-BLK	120	1	1500	1	12.5	Remote Control	24.5" x 6.5" x 5.25"	6.68

# **INSTALLATION INSTRUCTIONS**

**WARNING:** Risk of Fire—Keep combustibles such as furniture, paper, clothes and curtains are least 3 feet (0.9m) from the front of the heater and away from the sides 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 mounting bracket is provide with the heater which has been specifically designed to allow this product to be secured. Before drilling any holes, check that the surface 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.

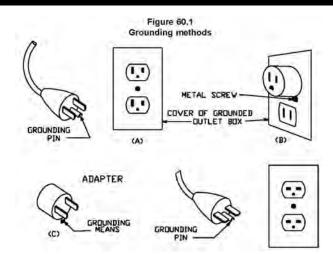
### RATED FOR INDOOR OR WELL PROTECTED OUTDOOR AREAS.

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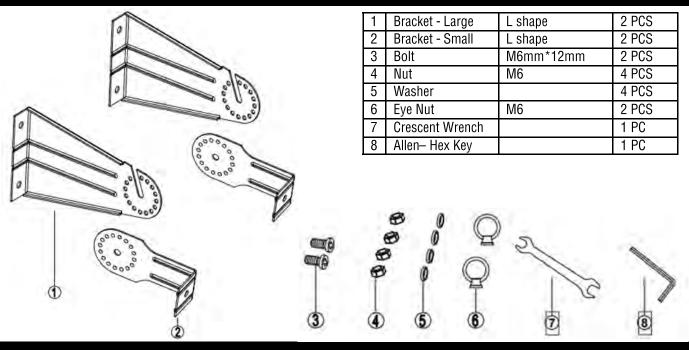
# SAVE THESE INSTRUCTIONS INSTALLATION WARNING

#### This heater is for use on 120 volts.

The cord has a plug as shown at A in Figure 60.1. An adapter as shown at C is available for connecting three-blade grounding-type plugs to two-slot receptacles. The green grounding lug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. The adapter should not be used if a three-slot grounded receptacle is available.



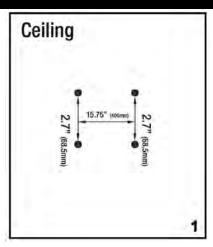
# **INSTALLATION ACCESSORIES LIST**



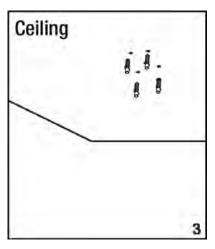
### **ATTENTION!**

- 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 to 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.

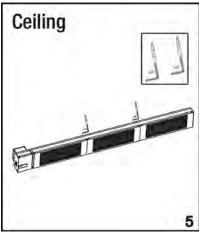
# **CEILING MOUNT INSTALLATION STEPS**



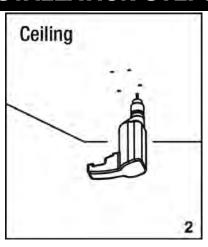
**Step 1:** Mark hole locations on the mounting surface with spacing as shown.



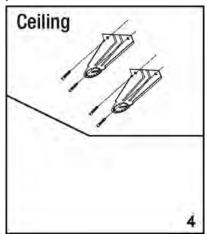
Step 3: Insert ceiling anchors into holes.



**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.

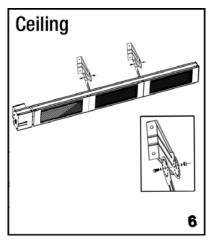


**Step 2:** Select fasteners and anchors of appropriate type sufficient for your specific wall type (Not provided). Drill holes on your indicator marks.



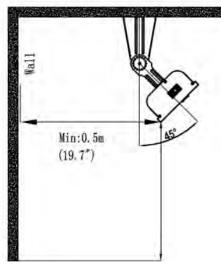
Step 4: Secure ceiling brackets to ceiling using

2 screws each. Make sure fasteners are suitable for your application.

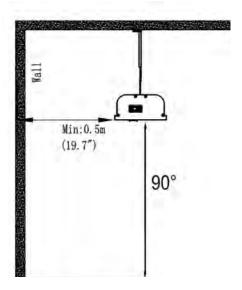


**Step 6:** Hang heater onto ceiling mounted brackets by inserting the bolts through the vertical slot in the bracket and then tighten nuts completely to secure in place at the desired angle.

# SAVE THESE INSTRUCTIONS CEILING MOUNT GUIDE



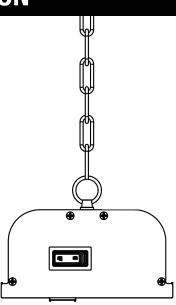
**CAUTION:** Select the suitable screw according to the heater weight/different model. Angle of reflector no more than 45°. The heater must be installed at least 7'9" above the floor.



# **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 eve 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



# **WIRING INSTRUCTIONS**

This heater must be connected to a 120 V power outlet.

- Step 1: Check UL/CUL label on heater to verify 120V rating.
- Step 2: Connect the heater to a 120 V power outlet.
- 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.



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# SAVE THESE INSTRUCTIONS — OPERATING INSTRUCTIONS

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

For Model RK1215-RMT-PLG-BLK

- 1. POWER SWITCH: Turns on Standby mode; display shows (- -);
- 2. FUNCTION BUTTON: Press button to select Heat Levels (L1-L2- Standby Off)

L1 = Half Wattage / L2 = Full Wattage

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

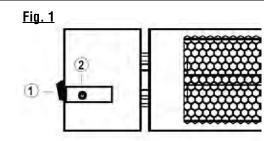
For Model RK1215-RMT-PLG-BLK

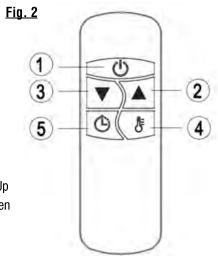
- 1. POWER BUTTON: Turns the heater On/Off.
- 2. UP BUTTON: Increases Timer or Heat level.
- 3. DOWN BUTTON: Decreases Timer or Heat level.
- **4. HEAT LEVEL BUTTON:** Press to adjust the Heat Levels (L1 L2).

Press the Heat Level button, then use the Up and Down buttons to increase or decrease the heat level.

#### L1 = Half Wattage / L2 = Full Wattage

**5. TIMER BUTTON:** Press Timer button to set the timer from 0 hours to 24 hours (0H - 24H). Use Up or Down buttons to increase or decrease the timer length. (0H) will show on display as default. Then adjust to the number of hours you would like to set, using the Up and Down buttons.





Noted: The heaters and remote controls have the same frequency, so it is possible to control several heaters with just one remote.

# **INSERTING BATTERIES IN REMOTE**

#### Insert 2 AAA/ Alkaline type batteries into your remote control

- 1. Flip to the backside of your remote control and pull off the battery cover. Insert the batteries in accordance with the instructions and polarity of the batteries.
- 2. Change the batteries in the same way depicted above.

**NOTICE:** Replace old batteries with the same battery type. Otherwise, your heater may not function well. 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.

Periodic inspection and removal of dirt and contaminants will ensure that equipment can be operated safely.

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# **TROUBLE SHOOTING**

- 1. Check if the power cord is plugged into an electrical outlet, if not, plug in.
- 2. Check and verify the power at the main circuit breaker functioning correctly.
- 3. 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. Unplug or disconnect the power cord before cleaning your appliance.
- 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. Unplug or disconnect the power cord before cleaning your appliance.
- 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.