

# Carbon Fiber Radiant Heater RKX SmartWave Series


**Model Code:**

RKX	24	45	RMTX	BLK
A	B	C	D	E

**A:** Series  
**B:** Volts 120, 208, 240  
**C:** Wattage  
**D:** RF Remote Control  
**E:** Black Color



- Instant, directional infrared heat
- Durable, CarbonIQ heating elements rated for 10,000 hours
- High-output medium-wave type lamps
- IP55 water-resistant rated for all weather conditions
- Pair Multiple Heaters To Create Heating Zone
- Permanent Timer Feature
- In-Built Timer
- Built-in electronic controller with 3 heating levels
- 24 Hour Auto-Shutoff
- Handheld RF remote control with wall holder
- Easy install 0° to 45° adjustable wall/ceiling brackets or chain Mount (chain not included)
- Heats objects not the surrounding air
- Left Or Right Junction Box Mounting
- Aircraft grade aluminum & stainless steel construction for maximum corrosion resistance
- Rated for indoor & well protected outdoor applications
- ETL certification for USA and Canada
- 3-Year Limited Warranty on Fixture
- 1-Year Limited Warranty on Carbon Lamps

## The *RKX* SmartWave® Carbon Fiber Radiant Heater Series

**RKX SmartWave carbon fiber radiant heaters** are IP55 rated for indoor or outdoor use and deliver infrared heat directly to people and objects without heating the surrounding air. Powered by CarbonIQ high-output, medium-wave carbon fiber elements that produce a soft orange glow with far less light than short-wave infrared. Ideal for patios and commercial spaces like restaurants that require powerful heat without excessive brightness. Each unit includes a built-in controller with three heat levels and an RF remote that can control multiple heaters together as one synchronized zone. Universal left or right junction box mounting and an LCD position sensor automatically adjust the display orientation. Permanent Timer mode supports energy code compliance, and a 24-hour automatic safety shutoff helps prevent wasted energy.

### Dual Lamp Models

MODEL	UPC	DESCRIPTION	LAMPS	TYPE	VOLTS	WATTS	BTU/H	AMPS	WT. (lbs.)
RKX2045-RMTX-BLK	70088	43" Black, Double Carbon Lamp w/ RF Remote	2	Hardwired	208	3,000	10,236	14.4	10.2
RKX2430-RMTX-BLK	33668	43" Black, Double Carbon Lamp w/ RF Remote	2	Hardwired	240	3,000	10,236	12.5	10.2

### Triple Lamp Models

MODEL	UPC	DESCRIPTION	LAMPS	TYPE	VOLTS	WATTS	BTU/H	AMPS	WT. (lbs.)
RKX2045-RMTX-BLK	33669	61" Black, Triple Carbon Lamp w/ IR Remote	3	Hardwired	208	4,500	15,355	21.6	14
RKX2445-RMTX-BLK	33670	61" Black, Triple Carbon Lamp w/ RF Remote	3	Hardwired	240	4,500	15,355	18.8	14

### Replacement Accessories

MODEL	UPC	DESCRIPTION
RK-HARDWARE-KIT	33547	Hardwire kit, RK series radiant heaters
RK-TOOL-KIT	33548	Tool kit, RK series radiant heaters
RK-GRILL	33549	Grill, RK series radiant heaters
RKX-REMOTE	70142	RF Remote, RKX series radiant heaters
RK-REMOTE-HOLDER	33551	Remote Holder, RK series radiant heaters

### Replacement Lamp Elements

MODEL	UPC	VOLTS	WATTS	LAMP LENGTH	LAMP TYPE
RK-LAMP1215	33552	120	1,500	24"	H.O. Medium Wave
RK-LAMP2015	33553	208	1,500	24"	H.O. Medium Wave
RK-LAMP2415	33554	240	1,500	24"	H.O. Medium Wave

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## What is CarbonIQ Heating Technology?

### 10,000 Hour Rated Durability

CarbonIQ infrared lamps are rated for up to an astounding 10,000 hours, producing a soft warm glow that produces more directional heat than traditional quartz heaters.

### Instant Heat

Since there is little mass in properties of carbon fiber, CarbonIQ heating elements deliver instant heat, right when you need it.



### Benefits of the Spiraled Coil

The logic is simple. Our carbon fiber elements are formed into a light-weight spiraled coil, which absorbs the effects of thermal expansion and vibrations.

### More Heat with Less Visible Light

Utilizing the medium wave of the light spectrum, which is more effective at heating human skin, CarbonIQ producing a softer radiant heat which has a similar effect as the sun.

### 98% Efficient Heat Transfer Rate

Due to the excellent electrical and thermal conducting properties of carbon fiber, it's transfer rate from electricity to heat can reach 98%, which means almost no heat loss, saving valuable energy.

## Create A Heating Zone & Control Multiple Heaters

### Zone 1

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, so that all heaters in this zone will be synchronized to the controls established by that remote.

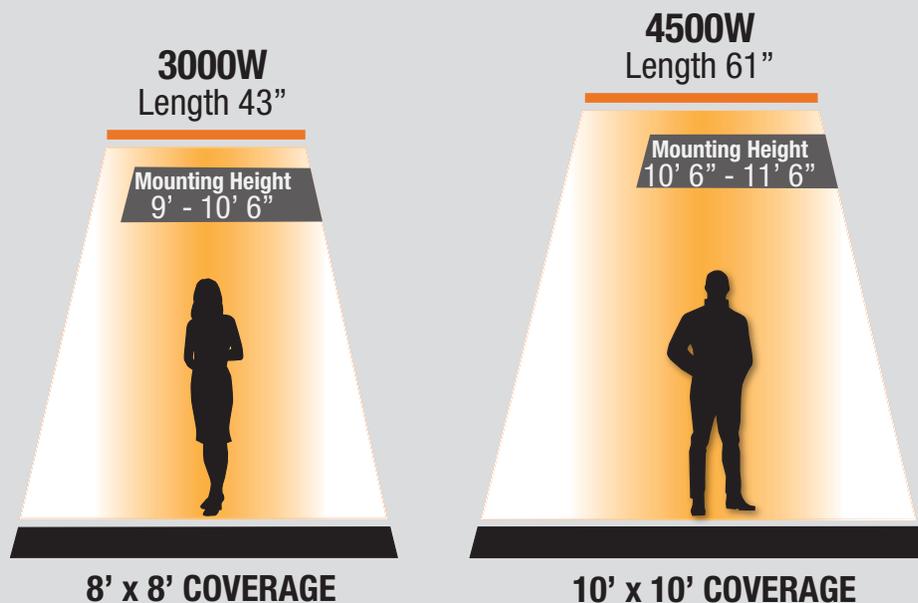


RF Remote

**SmartWave**  
Carbon Fiber Heaters

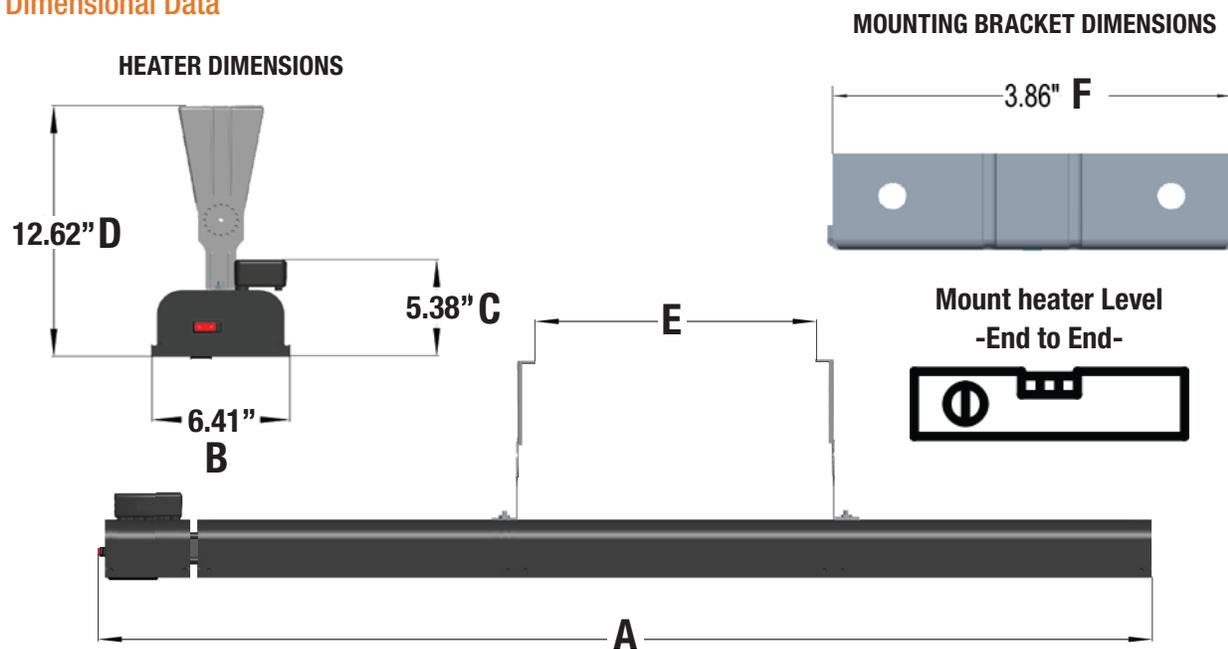
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## Heat Coverage Areas



**Note:** Indoor or well-protected environments will generally exceed average coverage areas. Heaters can provide less than average coverage in extremely cold/windy conditions.

### Dimensional Data



### Physical Dimensions

MODEL		A	B	C	D	E	F
RKX-2030-RMTX-BLK	(Double Carbon Lamp)	43"	6.41"	5.38"	12.62"	13.5" - 14.2"	3.86"
RKX-2430-RMTX-BLK	(Double Carbon Lamp)	43"	6.41"	5.38"	12.62"	13.5" - 14.2"	3.86"
RKX-2045-RMTX-BLK	(Triple Carbon Lamp)	61"	6.41"	5.38"	12.62"	19.7" - 20.5"	3.86"
RKX-2445-RMTX-BLK	(Triple Carbon Lamp)	61"	6.41"	5.38"	12.62"	19.7" - 20.5"	3.86"

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## RKX SmartWave Series Basic Heating Application Chart

SERIES	HEATER WATTAGE	LAMP QTY.	RECOMMENDED MOUNTING HEIGHT (Dim A)	RECOMMENDED DISTANCE BETWEEN HEATERS (Dim B)
RKX	3000W	2	9 FT to 10 FT 6"	7FT to 14 FT
RKX	4500W	3	10 FT 6" to 11 FT 6"	9FT to 18 FT

\*Clearance to combustibles published in the RKX Series Installation, Operation, Maintenance and Parts Manuals 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.

### Dual Lamp Model 3000W



### Triple Lamp Model 4500W



# SmartWave<sup>®</sup>



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## Clearance to Combustibles in Inches

Length	Mounting Angle	Side		End	Top	Below
		Front	Behind			
42"	0°	1'7"	1'7"	1'7"	9.4"	7'9"
	45°	3'3"	6.5"	1'7"	1'7"	7'9"
60"	0°	1'7"	1'7"	1'7"	9.4"	7'9"
	45°	3'3"	6.5"	1'7"	1'7"	7'9"

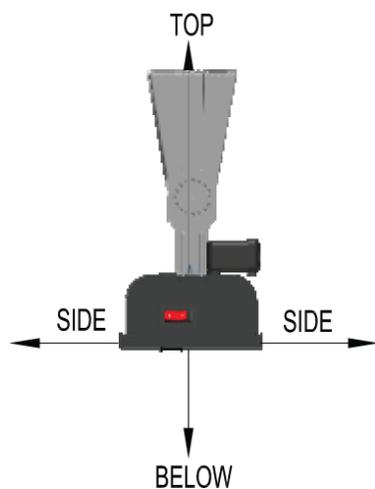
Heaters mounted on an angle between 0° and 45° must maintain clearances posted for 0° or 45° whichever is greater.

**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.

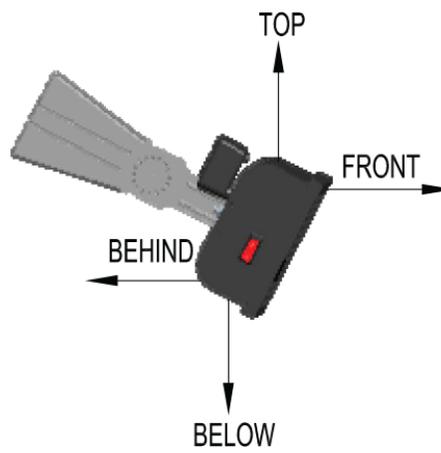
## Clearance to Combustibles



**TOP VIEW**  
0° Mounting Angle



**END VIEW**  
0° Mounting Angle



**END VIEW**  
45° Mounting Angle