king

Smart Heating Solutions

MADE IN USA
With U.S. & Global Materials

SUBMITTAL SHEET

Job Name: _____ Submitted By: Date:

Location: _____ _____ _____

Architect: _____ _____ _____

Engineer: _____ Approved By: Date:

Contractor: _____ _____ _____

Submitted By: _____ _____ _____

King Contact: _____ _____ _____

Quotes@king-electric.com

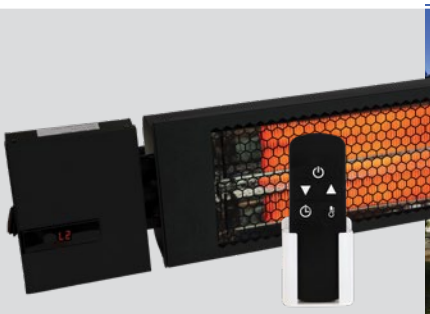
Date: _____

Tag	Qty	Item Number	Watts	Volts	PH	Amps	Weight

Accessories

Tag	Qty	Item Number

Carbon Fiber Radiant Heater RK SmartWave Series



Includes IR Remote

Model Code:

RK	24	45	RMT	BLK
A	B	C	D	E

A: Series
B: Volts 120, 208, 240
C: Wattage
D: 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
- Built-in electronic controller with high & low heating modes
- Timer mode
- Handheld IR remote control with wall holder
- Easy install 0° to 45° adjustable wall/ceiling brackets or chain Mount (chain not included)
- Aircraft grade aluminum & stainless steel construction for maximum corrosion resistance
- Heats objects not the surrounding air
- 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 RK SmartWave® Carbon Fiber Radiant Heater Series

SmartWave carbon fiber radiant heaters have the ability to transfer heat to a person or object without heating the surrounding air. Featuring CarbonIQ, carbon fiber elements, SmartWave produces high-output medium-wave infrared heat energy with a soft visible orange glow. With less intense light than short-wave infrared, SmartWave heaters are a great choice for outdoor patios and applications where high heat is required but less visible light is desired. Featuring an integrated, built-in controller, selecting between the different heat levels, or setting an hour timer to only heat the space while you are using it, is easy. And with the simple hand-held remote control, comfort is always in the palm of your hand.

Single Lamp Models

MODEL	UPC	DESCRIPTION	LAMPS	TYPE	VOLTS	WATTS	BTU/H	AMPS	WT. (lbs.)
RK1215-RMT-PLG-BLK	55383	24" Black, Carbon Lamp, 6 Ft Cord w/Plug & IR Remote	1	Plug-In	120	1,500	5,118	12.5	6.7
RK2015-RMT-BLK	55384	24" Black, Carbon Lamp w/ IR Remote	1	Hardwired	208	1,500	5,118	7.2	6.7
RK2415-RMT-BLK	55385	24" Black, Carbon Lamp w/ IR Remote	1	Hardwired	240	1,500	5,118	6.3	6.7

Dual Lamp Models

MODEL	UPC	DESCRIPTION	LAMPS	TYPE	VOLTS	WATTS	BTU/H	AMPS	WT. (lbs.)
RK2030-RMT-BLK	55386	43" Black, Double Carbon Lamp w/ IR 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.)
RK2045-RMT-BLK*	55388	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

NOTE: *If heater will be mounted high out of reach, it is required to install a Single-Pole Remote Wall Switch (Rated 22A min.) to cut power to the heater as needed.

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
RK-REMOTE	33550	IR Remote, 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

Carbon Fiber Radiant Heater RK SmartWave Series

SmartWave®

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.

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.

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

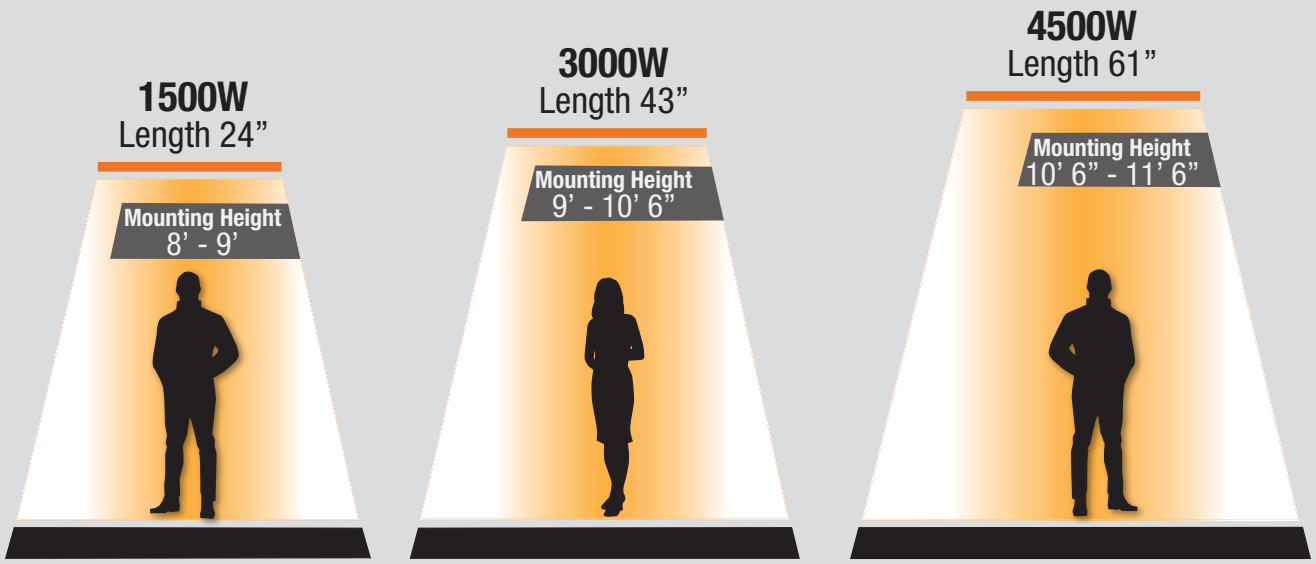
The logic is simple.
Our carbon fiber elements are formed into a light-weight spiraled coil, which absorbs the effects of thermal expansion and vibrations.

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.

Carbon Fiber Radiant Heater RK SmartWave Series

Heat Coverage Areas

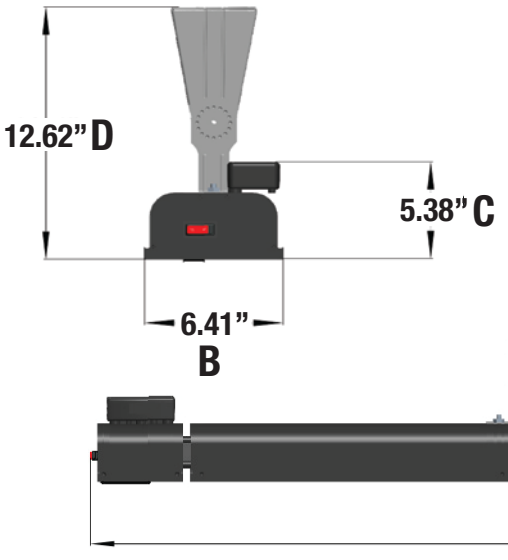


5’ x 5’ COVERAGE **8’ x 8’ COVERAGE** **10’ x 10’ COVERAGE**

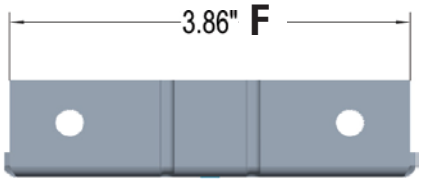
Note: Indoor or well-prtected envitonments will generally exceed average coverage areas. Heaters can provide less than average coverage in extremely cold/windy conditions.

Dimensional Data

HEATER DIMENSIONS



MOUNTING BRACKET DIMENSIONS



Mount heater Level -End to End-

Physical Dimensions

MODEL		A	B	C	D	E	F
RK1215-RMT-PLG-BLK	(Single Carbon Lamp)	24”	6.41”	5.38”	12.62”	7.5” - 8.25”	3.86”
RK2015-RMT-BLK	(Single Carbon Lamp)	24”	6.41”	5.38”	12.62”	7.5” - 8.25”	3.86”
RK2415-RMT-BLK	(Single Carbon Lamp)	24”	6.41”	5.38”	12.62”	7.5” - 8.25”	3.86”
RK-2030-RMT-BLK	(Double Carbon Lamp)	42.3”	6.41”	5.38”	12.62”	13.5” - 14.2”	3.86”
RK-2430-RMT-BLK	(Double Carbon Lamp)	42.3”	6.41”	5.38”	12.62”	13.5” - 14.2”	3.86”
RK-2045-RMT-BLK	(Triple Carbon Lamp)	60.7”	6.41”	5.38”	12.62”	19.7” - 20.5”	3.86”
RK-2445-RMT-BLK	(Triple Carbon Lamp)	60.7”	6.41”	5.38”	12.62”	19.7” - 20.5”	3.86”

Carbon Fiber Radiant Heater RK SmartWave Series

RK SmartWave Series Basic Heating Application Chart

SERIES	HEATER WATTAGE	LAMP QTY.	RECOMMENDED MOUNTING HEIGHT (Dim A)	RECOMMENDED DISTANCE BETWEEN HEATERS (Dim B)
RK	1500W	1	8 FT to 9 FT	5FT to 10 FT
RK	3000W	2	9 FT to 10 FT 6”	7FT to 14 FT
RK	4500W	3	10 FT 6“ to 11 FT 6”	9FT to 18 FT

*Clearance to combustibles published in the RH 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.

Single Lamp Model 1500W

Includes IR Remote

Dual Lamp Model 3000W

Triple Lamp Model 4500W

SmartWave®

Carbon Fiber Radiant Heater RK SmartWave Series

Clearance to Combustibles in Inches

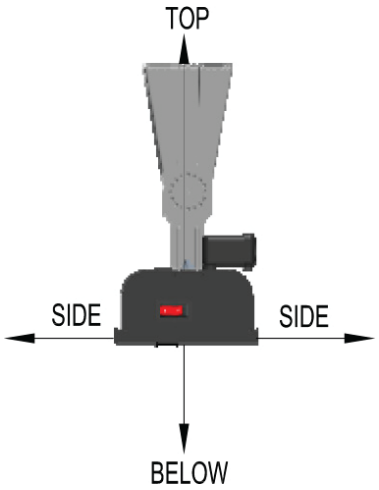
Length	Mounting Angle	Side		End	Top	Below
		Front	Behind			
Single Element						
24”	0°	1’7”	1’7”	1’7”	9.4”	7’9”
	45°	3’3”	6.5”	1’7”	1’7”	7’9”
Double Element						
42”	0°	1’7”	1’7”	1’7”	9.4”	7’9”
	45°	3’3”	6.5”	1’7”	1’7”	7’9”
Triple Element						
60”	0°	1’7”	1’7”	1’7”	9.4”	7’9”
	45°	3’3”	6.5”	1’7”	1’7”	7’9”

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

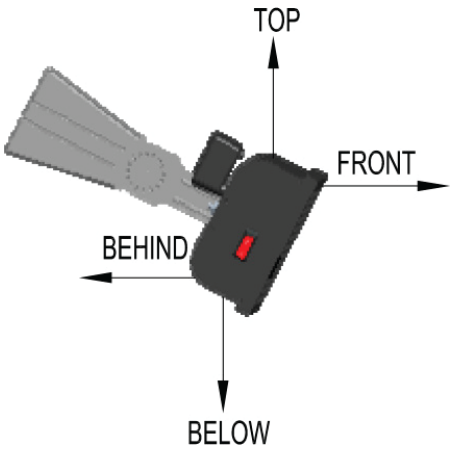
NOTE: Ensure that building materials with a low heat tolerance (i.e, awnings, fabrics, plastics, sprinklers, insulation, etc.) are protected against degradation. This may require the heater to be mounted at a distance in excess of the published clearances to combustibles. Contact the material manufacturer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

Clearance to Combustibles

TOP VIEW
0° Mounting Angle



END VIEW
0° Mounting Angle



END VIEW
45° Mounting Angle