

Infrared Radiant Heaters Process Heating - OKA Series

OKA Series

Applications

Caloritech™ OKA infrared radiant heaters are primarily designed for industrial applications such as:

- conveyorized or batch type ovens
- degreasing
- weld preheating
- roll heating
- curing, drying, softening of resins, vinyls and plastics
- baking, drying, curing of paint, lacquers and adhesives
- defrosting soil prior to pouring concrete
- curing concrete in winter construction
- thawing ore and coal in railroad cars for easier dumping



Features

Available with a choice of single or dual Incoloy® tubular elements, quartz tubes, or quartz lamps. Anodized and chemically brightened extruded aluminum reflector. Custom mounting frames and carts to suit individual requirements can be provided upon request (check factory). Also see page C33.

For wiring, use standard 392°F (200°C) supply wires.

Type C – Single Tubular Element

Generally used in conveyorized or batch type process heating applications requiring far infrared for drying or curing where a small economical unit is preferred. The mineral insulated alloy sheath heating element enables the unit to withstand splashing and vibration and is the most durable of the three heat sources.

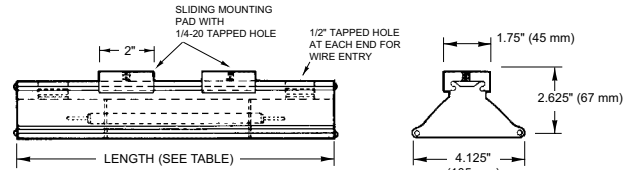
TYPE C 60° Spread

kW	Standard Voltages	Overall Length		Heated Length		Catalogue Number	Shipping Weight	
		in	mm	in	mm		lbs	kg
0.95	120, 208 240	29	737	20	508	OKA299C6	2.5	1.1
1.5		41	1041	32	813	OKA411C6	3.4	1.5
1.9		47	1194	38	965	OKA471C6	4.2	1.9
2.0	208, 240 480, 600	41	1041	32	813	OKA412C6	3.8	1.7
2.3		47	1194	38	965	OKA472C6	4.3	1.9
3.0		59	1499	50	1270	OKA593C6	5.2	2.4
3.8		71	1803	62	1575	OKA713C6	6.2	2.8

Note:

For 45° spread, last number in catalog no. is changed from "6" to "4".

Type E – Double Tubular Element



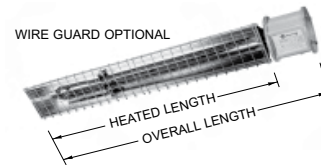
With two series wired heating elements in each reflector, these units are normally used in industrial applications where a rugged, efficient, high heat concentration is required. Applications include degreasing, weld preheating, roll heating, drying, sterilization, etc.

TYPE E 60° Spread

kW	Standard Voltages	Overall Length		Heated Length		Catalogue Number	Shipping Weight	
		in	mm	in	mm		lbs	kg
1.8	208, 240 480, 600	29	737	20	508	OKA291E6	3.5	1.6
3.2		41	1041	32	813	OKA413E6	4.8	2.2
3.8		47	1194	38	965	OKA473E6	5.4	2.5
5.0		59	1499	50	1270	OKA593E6	6.7	3.0
6.2		71	1803	62	1575	OKA713E6	8.0	3.6

Type R – Hairpin Tubular Element with Moisture Resistant Terminal Housing

Type R heaters are for use in outdoor installations or areas subject to periodic washdown.



TYPE R 60° Spread

kW	Standard Voltages	Overall Length		Heated Length		Catalogue Number	Shipping Weight	
		in	mm	in	mm		lbs	kg
1.1	208, 240 480, 600	18.25	463	14	356	OKA141H6R	2.9	1.3
1.6		23.25	590	19	483	OKA191H6R	4.8	2.2
2.1		29.25	743	25	635	OKA252H6R	5.4	2.5
2.5		33.25	844	29	737	OKA292H6R	5.8	2.6
3.0		38.25	971	34	864	OKA343H6R	6.4	2.9
3.6	208, 240 480, 600	45.25	1149	41	1041	OKA413H6R	7.1	3.2
4.2		51.25	1301	47	1194	OKA474H6R	7.8	3.5
5.3		63.25	1606	59	1499	OKA595H6R	9.1	4.1
6.5		75.25	1911	71	1803	OKA716H6R	10.4	4.7

Note:

*1.1 kW unit also available 120V.

DANGER: HAZARD OF FIRE - AVOID DIRECT CONTACT OF HEATER CASE WITH ANY COMBUSTIBLE SURFACES. ENERGIZED HEATERS SHOULD BE SPACED SO THAT NO COMBUSTIBLE SURFACES EXCEED 194°F (90°C). ALSO SEE PAGE C25.

To Order Specify

Quantity, catalog number, voltage and wattage.

OKA Series

Type T – Quartz Tube Element

These units are commonly used in industrial applications where medium intensity infrared heat is required such as paint spray booths, curing, drying and softening of resins, vinyls, or plastics.

Quartz tube fixtures must be mounted horizontally.

TYPE T 60° Spread

kW	Standard Voltages	Overall Length		Heated Length		Catalogue Number	Shipping Weight	
		in	mm	in	mm		lbs	kg
0.8	120, 208	25	635	16	406	OKA258T6	2.6	1.2
1.6	240	41	1041	32	813	OKA411T6	3.8	1.7
2.5	208, 240	59	1499	50	1270	OKA592T6	5.0	2.3
3.1	480, 600	70	1803	62	1575	OKA713T6	5.8	2.6

Type F – Double Quartz Tube Elements

For use in applications where high intensity heat is required but the light emitted by quartz lamps would be objectionable.

Quartz tube fixtures must be mounted horizontally.

TYPE F 60° Spread

kW	Standard Voltages	Overall Length		Heated Length		Catalogue Number	Shipping Weight	
		in	mm	in	mm		lbs	kg
1.6	120, 208	25	635	16	406	OKA251F6	3.2	1.5
3.2	240	41	1041	32	813	OKA413F6	4.6	2.1
5.0	208, 240	59	1499	50	1270	OKA595F6	6.1	2.8
6.2	480, 600	71	1803	62	1575	OKA716F6	7.1	3.2

Type L – Quartz Lamp Element

These are widely used in industrial applications where high intensity radiation is required and where it is essential to turn the heat on or off instantaneously. They are commonly used for baking, drying and curing items such as paint, varnishes, lacquers, and adhesives, for softening plastics and for food processing.

Quartz lamp fixtures must be mounted horizontally.

TYPE L 60° Spread

kW	Standard Voltages	Overall Length		Heated Length		Catalogue Number	Shipping Weight	
		in	mm	in	mm		lbs	kg
0.5	120	14	356	5	127	OKA145L6	1.9	0.9
1.0	208, 240	19	483	10	254	OKA191L6	2.2	1.0
1.6		25	635	16	406	OKA251L6	2.6	1.2
2.5		34	864	25	635	OKA342L6	3.3	1.5
3.8	600	47	1194	38	965	OKA473L6	4.2	1.9

OK3 Series

Application

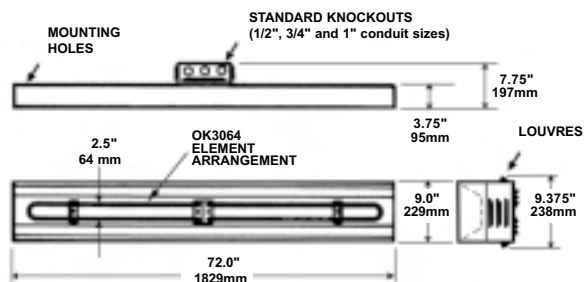
The OK3 infrared radiant heater is used where an extra high density rugged heat source is required. It is suited for process or comfort heating.

Features

This unit features two Incoloy® tubular elements which are designed for operation under severe working conditions. Thermal insulation decreases heat losses, increases efficiency, and reduces power required. Tarnish free, high lustre, aluminum reflector increases efficiency by concentrating energy on the area to be heated (energy spread approx. 60°).



Models are available with general purpose or weatherproof terminal boxes to meet a wide variety of special process heating applications.



TYPE OK3 60° Spread

kW	Standard Voltages	Catalog Number		Shipping Weight	
		General Purpose Housing	Moisture Resistant Housing	lb	kg
6.4	208, 240 480, 600	OK3064	OK3064R	38	17.4
8.0		OK3080	OK3080R		
10.0		OK3100	OK3100R		

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To Order Specify

Quantity, catalog number, voltage and wattage.