RADIANT OPTICS

HotZone HeatProjector
Gas Series

Precision heat from distance

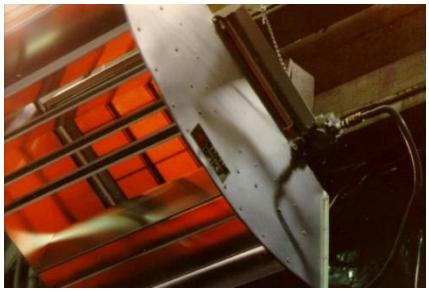
Groundbreaking efficiency

Lowest operating cost

Quiet, low maintenance operation

Super-efficient, precision spot heat, projected over 25 feet!

Working much like a film projector or lighthouse, our Compound Reflective Lens focuses heat energy by 3x, allowing our *HeatProjectors* to project and direct heat from distance without moving parts. Heat is projected in precise patterns and different shapes, with a distinct edge between heated and non-heated areas. *HeatProjectors* provide IR heating that is unaffected by wind and are great for areas where doors are frequently opened.



Lower your operating costs.
Instead of heating an entire high bay space, *HeatProjectors* can be used to heat areas where people are located, even if a bay door is open. In addition, Our *HeatProjector* can be 1/3 the size of a non-lensed gas IR heater or installed at 3x the distance - and deliver the same amount of heat - using markedly less energy and saving capital and installation costs.

Quiet, low maintenance operation
HeatProjectors have no moving parts for quiet, low maintenance operation.

Lower carbon footprint

The *HeatProjector* produces 1/3 of the greenhouse gases per delivered BTU compared to a non-lensed gas IR heater.

• Big box retailers •
• Warehouses •
• Manufacturing •
• Lobbies • Vestibules•
• Hangars • Airports •
• Ice and snow removal •
• Stadiums •

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Heat Maps – precise pattern, predictable temperature increase

1. Find model, mounting angle and height on table.

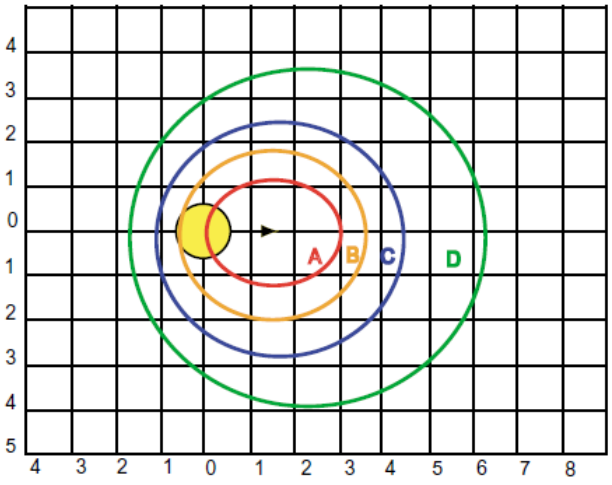
2. Multiply the number on the chart by the Multiplier to get distance in feet

* Temperature increase on horizontal surface 3ft high. A person will feel a higher temp increase.

Spot Lens – projects heat in a circular pattern

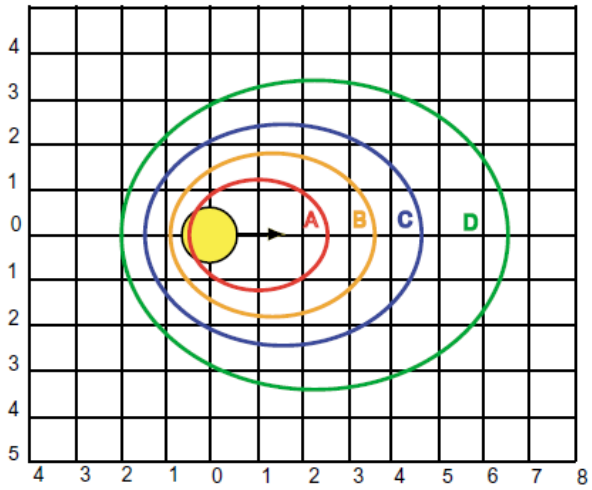
Mount Angle		26 Degrees						
Model		e 105,000			e 210,000			
Mount Height (ft)		10	13	18	10	13	18	23
Temperature Increase (°F)	A	25	16	9	50	33	17	10
	B	19	12	6	37	24	13	8
	C	13	8	4	25	16	9	5
	D	6	4	2	13	8	4	3
Multiplier		1.5	2	3	1.5	2	3	4

Direction heater is tilted.



Mount Angle		35 Degrees						
Model		e 105,000			e 210,000			
Mount Height (ft)		10	13	18	10	13	18	23
Temperature Increase (°F)	A	20	13	7	40	26	14	8
	B	15	10	5	30	20	10	6
	C	10	7	3	20	13	7	4
	D	5	3	2	10	7	3	2
Multiplier		1.5	2	3	1.5	2	3	4

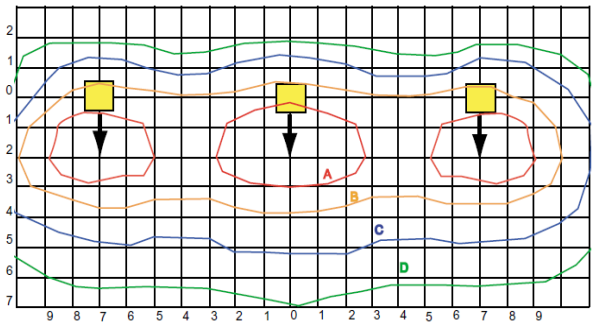
Direction heater is tilted.



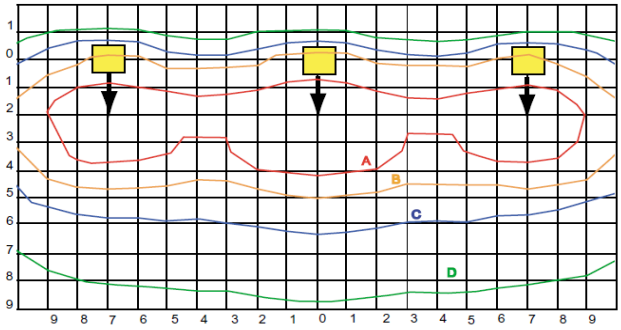
Aisle Lens – projects heat in a rectangular pattern

These heaters are often installed in a row to provide even heat over a long distance

Mount Angle		26 Degrees										
Model		e 105,000			e 210,000				e 330,000			
Mount Height (ft)		10	13	18	10	13	18	23	13	18	23	28
Temperature Increase (°F)	A	23	15	8	45	30	15	9	44	23	14	10
	B	17	11	6	34	22	12	7	33	17	11	7
	C	11	7	4	23	15	8	5	22	12	7	5
	D	6	4	2	11	7	4	2	11	6	4	2
Multiplier		1.5	2	3	1.5	2	3	4	2	3	4	5



Mount Angle		35 Degrees										
Model		e 105,000			e 210,000				e 330,000			
Mount Height (ft)		10	13	18	10	13	18	23	13	18	23	28
Temperature Increase (°F)	A	18	12	6	36	24	13	8	35	19	11	8
	B	14	9	5	27	18	9	6	27	14	9	6
	C	9	6	3	18	12	6	4	18	9	6	4
	D	5	3	2	9	6	3	2	9	5	3	2
Multiplier		1.5	2	3	1.5	2	3	4	2	3	4	5



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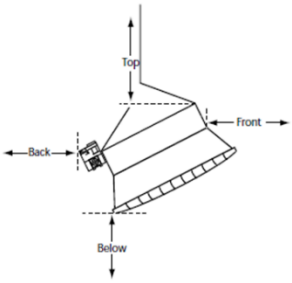
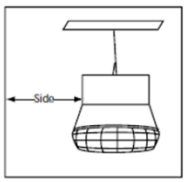
Distance to Combustibles





Model	Lens	Distance to Combustibles				
		Side	Front	Back	Top	Below
e 105	Spot	30"	30"	30"	30"	75"
e 210	Spot	37"	37"	37"	37"	100"
e 105	Aisle	48"	15"	15"	30"	75"
e 210	Aisle	62"	18"	18"	36"	100"
e 330	Aisle	76"	20"	20"	48"	132"

Dimensions and options

Model	Fuel	Lens	Mounting Height	Input	Effective Output	L	W	H	Weight	Control Voltages
e 105	NG or LP	Spot	10-13 ft	35 mBTU	105 mBTU	29"	29"	16"	48 lbs	24, 120, MV
		Aisle				14"	32"	23"		
e 210	NG or LP	Spot	13-18 ft	70 mBTU	210 mBTU	37"	37"	19"	61 lbs	24, 120, MV
		Aisle				21"	32"	23"		
e 330	NG or LP	Aisle	18-28 ft	110 mBTU	330 mBTU	28"	32"	23"	71 lbs	24, 120, MV

Gas Information

Available in Natural Gas	(NG) and Propane (LP) models	
Minimum inlet pressure:	Natural Gas 7.0" WC	Propane 11.0" WC
Maximum inlet pressure:	Natural Gas 14.0" WC	Propane 14.0" WC
Gas Inlet Connection:	1/2” FPT	

Control Information

Control: Direct Spark (24V or 120V) or Millivolt

Venting

Provide 4 CFM of air per mBTU of input. Use inflitration, gravity or forced air means.

Installation Notes

Heated aisle is parallel with the manifold and with the "slats" of the lens
Install gas valve on low end with manifold parallel to the ground
Install heater at an angle of 10-70 degrees
Use chains or rods to hang the heater

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CONFORMS TO ANSI Z83.19
Intertek
5019392

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