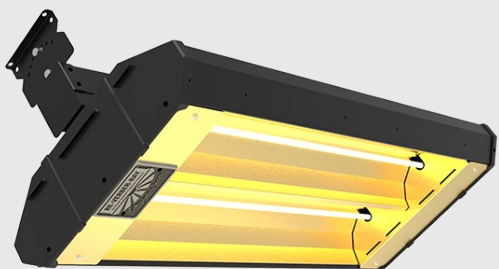
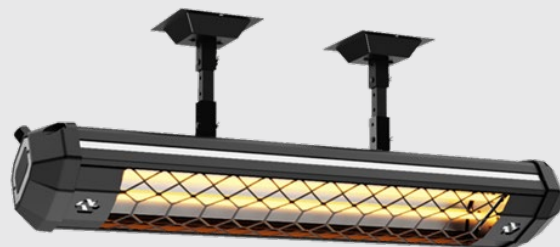


ELECTRIC HEATER

Engineering & Application Guide



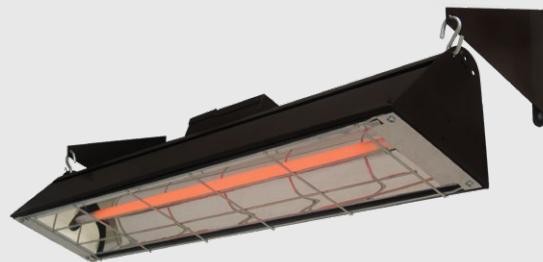
ELX & ELD Series
Electric Heaters



HRE Series
Electric Heater



DSS Series
Electric Heater



BAH Series
Electric Heaters

Equipment selection, system design, and sample applications for electric heaters.

WARNING



Consult the Installation, Operation, and Maintenance Manual(s) for specific requirements regarding clearances to combustibles, minimum mounting heights, and system design guidelines.

Guide to Selecting the Right Electric Heater

Electric heaters provide efficient, reliable heating for a wide range of commercial, industrial, and residential applications. Use the following considerations to select the right heater for your space.



MOUNTING HEIGHTS

Heaters should be mounted at the recommended mounting heights to achieve optimal performance and comfort. Mounting too high can reduce effectiveness, while mounting too low may increase the risk of accidental contact.

Refer to individual product manuals for specific mounting guidelines.



CUSTOMER EXPECTATIONS

Understanding the environment and customer expectations is essential. Consider how the space is used, desired comfort levels, and whether the primary goal is heating people, spot heating, or freeze protection.

Set realistic expectations for performance.



EXCESSIVE AIR MOVEMENT

High levels of wind or ventilation can reduce heater effectiveness and create uneven comfort. Shielding from wind, adjusting mounting locations, or selecting higher-output heaters may be necessary.

Evaluate air movement during system design.

Look to the Experts in Heating

Since 1955, Detroit Radiant Products Company has been setting the standard for high-quality, cost-effective, energy-efficient infrared heaters. Re-Verber-Ray® brand products are recognized as a solution for most commercial, industrial, and specialty applications. Our manufacturing flexibility and efficiencies are a key element in providing optimal customer service and application-specific heating solutions.

When you have questions, we're here to help you design the right solution.

PRODUCT FEATURE KEY



Water Resistant



Adjustable Mounting



Recess Option



IP55 Rated



Visible Light



Even Heat Distribution



Wind Resistant



Intense Heat Output

Why Choose Electric Heat?

Electric infrared heaters are a great choice when there is no gas available for gas-fired patio heaters, or when there are space or clearance to combustibles constraints that prevent the installation of a gas-fired unit. Electric heaters are 100% efficient and have no venting requirements. With a wide range of available voltages and light-emitting and no-light models, these heaters are a great solution for a myriad of applications.



PROS

- Wide range of available voltages
- Compact
- Light-emitting and low-light models available
- Ultra high efficiencies
- No venting required
- Lower cost per unit
- Heat output isn't affected by wind



CONSIDERATIONS

- Higher amp draw per heater
- Require more units when compared to gas-fired options
- Costly to operate compared to gas-fired options
- Controls can become complex and pricey



ESTIMATING REQUIRED LOADS FOR PERCEIVED 10–15° OUTDOOR TEMP. RISE

Type of Building	Watts Required per Sq. Ft. at Floor Level*
Insulated	5–10
Uninsulated	10–15
Outdoor Sheltered	20–30
Outdoor Unsheltered	25–40

*For load purposes only, not for determining coverage.

Add the following watts per square foot for the following temperatures below zero:

- 5 Add 0.75 watts per square foot
- 10 Add 1.50 watts per square foot
- 15 Add 2.25 watts per square foot
- 20 Add 3.00 watts per square foot

IMPORTANT: The table above is designed for a mounting height of 9 feet above floor level.
For higher mountings, add 10% of the total watts for each foot above 9 feet.
For lower than 9 feet mountings, deduct 10% of the total watts for each foot below 9 feet.

More heaters may be needed to provide adequate coverage for the space. Typical height above patrons is 2–6 ft.

ELX SERIES APPLICATION CHART

Series	Lamp Quantity	Minimum Mounting Height (Ft.)		Recommended Mounting Height (Ft.)** [Dim. A]	Outdoor Unprotected†	Outdoor Protected†	Indoor Protected†	Average†
		US (ft.)	Canada (m)					
ELX[M,T]-24	1	6 ft.	2.4 m	6 to 7	6' x 6'	7' x 7'	8' x 8'	7' x 7'
	2	7.5 ft.	2.4 m	6 to 7	6' x 6'	7' x 7'	8' x 8'	7' x 7'
	3	9 ft.	2.8 m	10 to 12	8' x 8'	9' x 9'	10' x 10'	9' x 9'
ELX[S,R]-24	1	6 ft.	2.4 m	10 to 12	8' x 8'	9' x 9'	10' x 10'	9' x 9'
	2	7.5 ft.	2.4 m	10 to 12	8' x 8'	9' x 9'	10' x 10'	9' x 9'
	3	9 ft.	2.8 m	12 to 14	10' x 10'	11' x 11'	12' x 12'	11' x 11'
ELX[M,T]-33	1	6 ft.	2.4 m	7 to 8	7' x 7'	8' x 8'	9' x 9'	8' x 8'
	2	7.5 ft.	2.4 m	7 to 8	7' x 7'	8' x 8'	9' x 9'	8' x 8'
	3	9 ft.	2.8 m	10 to 14	9' x 9'	10' x 10'	11' x 11'	10' x 10'
ELX[S,R]-33	1	6 ft.	2.4 m	10 to 12	10' x 10'	11' x 11'	12' x 12'	11' x 11'
	2	7.5 ft.	2.4 m	10 to 12	10' x 10'	11' x 11'	12' x 12'	11' x 11'
	3	9 ft.	2.8 m	12 to 14	12' x 12'	13' x 13'	14' x 14'	13' x 13'
ELX[M,T]-46	1	6 ft.	2.4 m	8 to 10	9' x 9'	10' x 10'	11' x 11'	10' x 10'
	2	7.5 ft.	2.4 m	8 to 10	9' x 9'	10' x 10'	11' x 11'	10' x 10'
	3	9 ft.	2.8 m	12 to 14	12' x 12'	13' x 13'	14' x 14'	13' x 13'
ELX[S,R]-46	1	6 ft.	2.4 m	10 to 12	10' x 10'	11' x 11'	12' x 12'	11' x 11'
	2	7.5 ft.	2.4 m	10 to 12	10' x 10'	11' x 11'	12' x 12'	11' x 11'
	3	9 ft.	2.8 m	12 to 16	14' x 14'	15' x 15'	16' x 16'	15' x 15'
ELX[M,T]-60	1	6 ft.	2.4 m	8 to 12	9' x 9'	11' x 11'	12' x 12'	11' x 11'
ELX[S,R]-60	1	6 ft.	2.4 m	10 to 14	10' x 10'	12' x 12'	14' x 14'	12' x 12'

** 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.

† Approximation only. Mounting height and environmental conditions will impact performance.

ELD SERIES APPLICATION CHART

Series	Minimum Mounting Height (Ft.)		Recommended Mounting Height (Ft.)** [Dim. A]	Outdoor Unprotected†	Outdoor Protected†	Average†
	US (ft.)	Canada (m)				
ELD[M,T]-24	6 ft.	2.4 m	6 to 7	6' x 6'	8' x 8'	7' x 7'
ELD[M,T]-33	6 ft.	2.4 m	7 to 8	7' x 7'	9' x 9'	8' x 8'
ELD[M,T]-46	7 ft.	2.4 m	8 to 10	8' x 8'	11' x 11'	10' x 10'
ELD[M,T]-60	8 ft.	2.4 m	8 to 12	8' x 8'	13' x 13'	12' x 12'

HRE SERIES APPLICATION CHART

Length	Minimum Mounting Height (Ft.)		Recommended Mounting Height (Ft.)** [Dim. A]	Outdoor Unprotected†	Outdoor Protected†	Average†
	US (ft.)	Canada (m)				
HRE[M,T]-27	6 ft.	2.4 m	6 to 7	6' x 6'	8' x 8'	7' x 7'
HRE[M,T]-36	6 ft.	2.4 m	7 to 8	7' x 7'	9' x 9'	8' x 8'
HRE[M,T]-49	7 ft.	2.4 m	8 to 10	8' x 8'	11' x 11'	10' x 10'
HRE[M,T]-63	8 ft.	2.4 m	8 to 12	8' x 8'	13' x 13'	12' x 12'

DSS SERIES APPLICATION CHART

Model	Lamp Quantity	Recommended Mounting Height (Ft.)**	Recommended Distance Between Heaters (Ft.)
DSS-35B1-A15	1	6 to 8	3 to 9
DSS-35B1-C25	1	7 to 11	1 to 11

BAH SERIES APPLICATION CHART

Series	Lamp Quantity	Recommended Mounting Height (Ft.)**	Recommended Distance Between Heaters (Ft.)
BAH-25	1	7 to 9	3 to 9
BAH-35	1	8 to 10	4 to 11
BAH-45	1	9 to 11	5 to 13
BAH-60	1	10 to 12	6 to 15

** 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.

† Approximation only. Mounting height and environmental conditions will impact performance.

FEATURES	ELXM SERIES EL-MW ELEMENTS	ELXT SERIES EL-HO ELEMENTS	ELXS/R SERIES EL-SC & EL-SR ELEMENTS	ELDM SERIES	ELDT SERIES
Wavelength Type	Standard Medium Wave	High-Output Medium Wave	Short Wave (Clear or Ruby)	Standard Medium Wave	High-Output Medium Wave
Available Chassis Lengths	24", 33", 46", or 60"	24", 33", 46", or 60"	24", 33", or 46"	24", 33", 46", or 60"	24", 33", 46", or 60"
Number of Elements	1, 2, or 3	1, 2, or 3	1, 2, or 3	2	2
Available Voltages	120, 208, 240, 277, 480, or 575	120, 208, 240, 277, 480, or 575	120, 208, 240, 277, 480, or 575	120, 208, 240, 277, 480, or 575	120, 208, 240, 277, 480, or 575
Wattage Range	750 to 6,000	1,360 to 9,600	1,500 to 11,400	1,500 to 6,000	2,720 to 8,000
BTU Equivalent Range	2,559 to 20,472 BTU/h	4,641 to 32,757 BTU/h	5,118 to 38,898 BTU/h	5,118 to 20,472 BTU/h	9,281 to 27,296 BTU/h
Element Type	Coiled Tungsten	Woven Tungsten	Coiled Tungsten	Coiled Tungsten	Woven Tungsten
Element Color	Clear	Clear	Clear or Ruby	Clear	Clear
Ideal Applications	Romantic restaurants, outdoor patios, and other areas where light is not needed or desired.	Spot heating, indoor and outdoor commercial, outdoor patios, and other areas where more heat is required but the brightness of the short wave is not.	Spot heating, indoor and outdoor commercial, valet waiting areas, and other areas where visible light is desired.	Romantic restaurants, outdoor patios, and other areas where light is not needed or desired.	Spot heating, indoor and outdoor commercial, outdoor patios, and other areas where more heat is required but the brightness of the short wave is not.
Brightness Level					
Color	Soft Orange	White	Bright White or Ruby	Mild White	White
Heat Speed	Short	Short	Instant-On	Short	Short
Certification					
Limited Warranty	1-Year All Components	1-Year All Components	1-Year All Components	1-Year All Components	1-Year All Components
Indoor Approvals	Commercial Industrial	Commercial Industrial	Commercial Industrial	Commercial Industrial	Commercial Industrial
Outdoor Approvals	Commercial Industrial Residential	Commercial Industrial Residential	Commercial Industrial Residential	Commercial Industrial Residential	Commercial Industrial Residential
Recessed Mount Available	Single Element Double Element	Single Element Double Element	Single Element Double Element	Yes	Yes
Typ. Height Above Patrons¹	2 to 6 feet	2 to 6 feet	2 to 6 feet	2 to 6 feet	2 to 6 feet

¹Typ. Height Above Patrons are recommended and are provided as a guideline only. Actual conditions will dictate variations from the above data. Clearances to combustibles must always be maintained.

FEATURES	HREM SERIES	HRET SERIES	DSS SERIES	BAH SERIES
Wavelength Type	Standard Medium Wave	High-Output Medium Wave	Standard Medium Wave	Standard Medium Wave
Available Chassis Lengths	27", 36", 49", or 63"	27", 36", 49", or 63"	34.5"	25", 35", 45", or 60"
Number of Elements	1 or 2	1 or 2	1	1
Available Voltages	120, 208, 240, 277, 480, or 575	120, 208, 240, 277, 480, or 575	120 or 230	120, 208, or 240
Wattage Range	750 to 6,000	1,360 to 8,000	1,500 to 2,500	1,000 to 4,000
BTU Equivalent Range	2,559 to 20,472	4,641 to 27,296	5,118 to 8,530 BTU/h	3,400 to 13,500 BTU/h
Element Type	Coiled Tungsten	Woven Tungsten	Carbon Fiber	Coiled Tungsten
Element Color	Clear	Clear	Clear	Clear
Ideal Applications	Restaurants, patios, hospitality spaces, coastal environments, and other commercial areas where moderate heat and high-end aesthetics are required.	Restaurants, patios, hospitality spaces, coastal environments, and other commercial areas where more heat and high-end aesthetics are required.	Residential patios, workstations, and other smaller areas where moderate heat is required but visible light is not.	Indoor spot heating, shop offices, workstations, and other areas indoors where moderate heat is required but a lot of visible light is not.
Brightness Level				
Color	Mild White	White	Mild White	Mild White
Heat Speed	Short	Short	Short	Short
Certification				
Limited Warranty	1-Year All Components	1-Year All Components	1-Year All Components	1-Year All Components
Indoor Approvals	Commercial Industrial	Commercial Industrial	Commercial Industrial	Commercial Industrial
Outdoor Approvals	Commercial Industrial Residential	Commercial Industrial Residential	Commercial Industrial Residential	N/A
Recessed Mount Available	Yes	Yes	N/A	N/A
Typ. Height Above Patrons²	2 to 6 feet	2 to 6 feet	2 to 6 feet	2 to 6 feet

²Typ. Height Above Patrons are recommended and are provided as a guideline only. Actual conditions will dictate variations from the above data. Clearances to combustibles must always be maintained.

Indoor/Outdoor Electric Heating Questionnaire

Please make copies of these sheets for additional questionnaires.

Is this application commercial or residential?	☐ Residential	☐ Commercial
--	--------------------------------------	-------------------------------------

Is this application indoor or outdoor?	☐ Indoor	☐ Outdoor
--	---------------------------------	----------------------------------

What voltage is required (120, 208, 240, 277, 480, 575)?	_____	☐ Approx. amperage?*
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What service is provided at the site?*	☐ Single Phase	☐ Three Phase
--	---------------------------------------	--------------------------------------

* All electric infrared heaters are built as single phase. If three phase service is available at the job site, design in multiples of three (heaters or elements) and divide the heater's amps by 1.73.

What are the dimensions of the area being heated?	_____
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What is the material of the roof/ deck structure above the heater?	_____
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What is the height of the structure above the heater?	_____
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What is the main purpose of heating (spot heating, whole bldg. heat, smoking area, dining, etc.)?	_____
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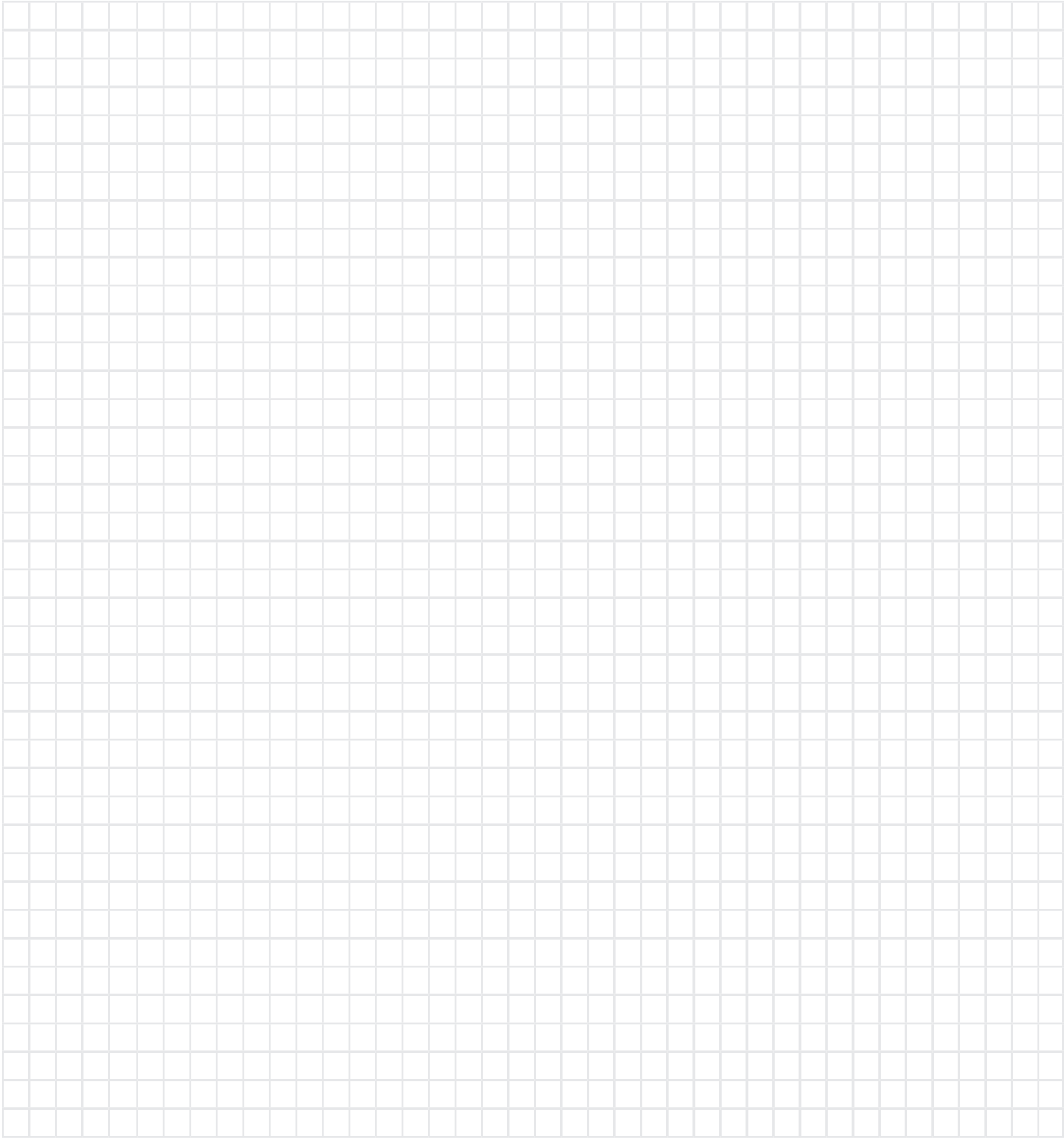
If outdoor patio, will the area be closed in with curtains or glass during usage months?	_____
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What is your expectation for heat (comfort, year-round heating**, etc.)?	_____
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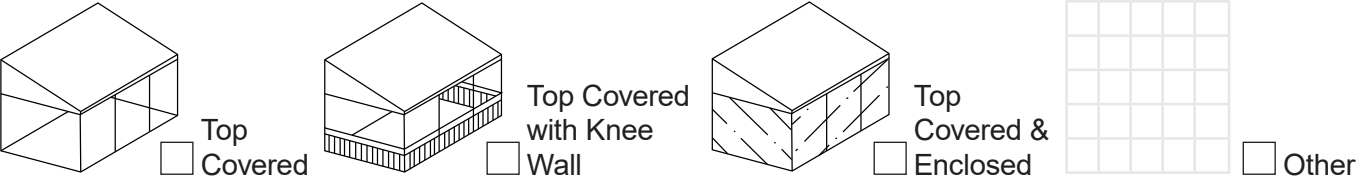
**A typical heating system will not be able to overcome all weather conditions, particularly during colder and breezier periods.

Any additional information?	_____

Floor Plan Sketch (Include dimensions, locations of all doors and windows, and where obstacles and/or furnishings will be located.)



Patio Elevation Details: (Note dimensions and interior obstructions such as fans or lights)



ELX Series Multi-Element Electric Infrared Heater

The ELX Series is a powerful and versatile solution for commercial, industrial, and outdoor residential electric heating. Featuring several element types, the ELX Series utilizes clear or ruby short wave, high-output medium wave, or standard medium wave elements. Short wave elements (ELXS/ELXR) provide intense heat and bright light, ideal for spot heating and

high-visibility areas like valet stations and garages. High-output medium wave (ELXT) delivers similar heat with about 30% less light. Standard medium wave (ELXM) offers a softer glow with lower heat output, perfect for patios and restaurants. With three available lengths and single, double, or triple lamp models, the ELX Series is a great choice for a myriad of applications.



Models range from 750 to 11,400 watts
Available in black or stainless steel finishes

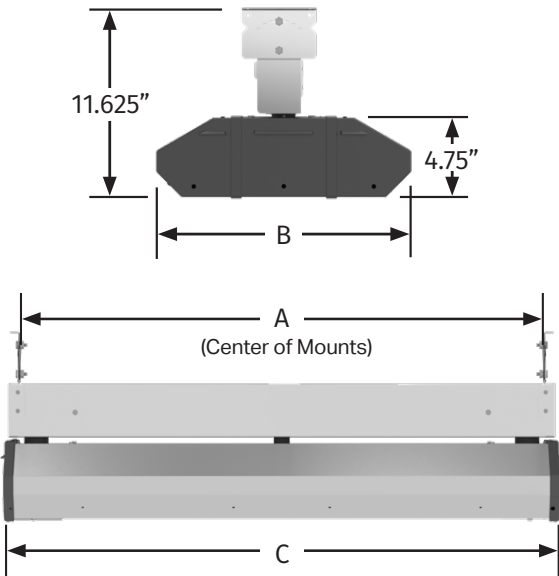
KEY FEATURES

- Gold-colored anodized aluminum reflectors reduce glare
- Single, double, or triple lamp models
- Elements available in clear or ruby short wave, high-output medium wave, or standard medium wave
- 0° to 45° adjustable mounting brackets included
- Black powder-coated or brushed stainless steel housing
- High-temperature nylon end caps



Specifications

SPECIFICATIONS	ELXM MODELS	ELXT MODELS	ELXS/ELXR MODELS
Electrical Consumption	750 to 6,000 Watts	1,360 to 9,600 Watts	1,500 to 11,400 Watts
Equivalent BTU	2,559 to 20,472	4,641 to 32,757	5,118 to 38,898
Voltage	120 to 575 VAC		
Lamp Element	Std. Medium Wave	High-Output Medium Wave	Clear or Ruby Short Wave
^Rcmd. Mounting Height	Varies from 10 ft. to 16 ft. based on model		
Weight	Varies based on model		
Approvals	Outdoor Commercial Indoor Commercial Outdoor Residential		
Limited Warranty	1-year all components		
Dimensions	A	B	C
ELX-24X1	23.50"	9.625"	24.50"
ELX-24X2	23.50"	15.25"	24.50"
ELX-24X3	23.50"	21.00"	24.50"
ELX-33X1	32.50"	9.625"	33.50"
ELX-33X2	32.50"	15.25"	33.50"
ELX-33X3	32.50"	21.00"	33.50"
ELX-46X1	45.50"	9.625"	46.50"
ELX-46X2	45.50"	15.25"	46.50"
ELX-46X3	45.50"	21.00"	46.50"



^ Typical or recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from this data.

* Based upon lab conditions with no wind & targeted 15° temperature rise. Site conditions may vary.

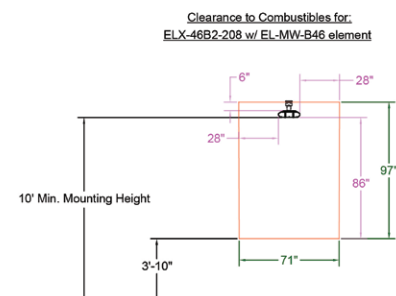
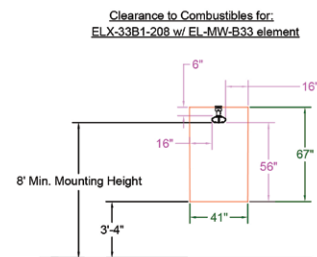
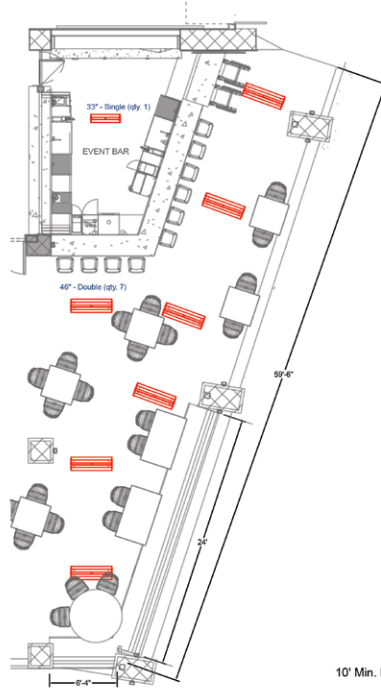
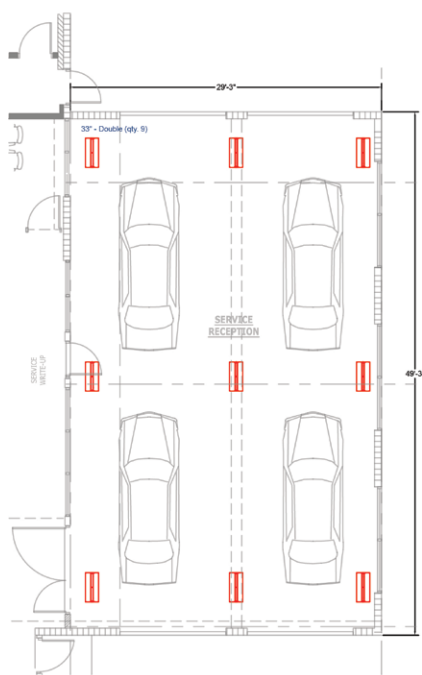
Clearances to Combustibles

Length	Mounting Angle	Side		End	Top	Below	Min. Mtg. Height	
		Front	Behind				US	Canada
Single Element								
24" 33" 46"	0°	16 (407)	16 (407)	12 (305)	6 (153)	56 (1423)	6 ft.	2.4 m
	45°	47 (1194)	4 (102)	12 (305)	10 (254)	40 (1016)		
Double Element								
24" 33" 46"	0°	28 (712)	28 (712)	26 (661)	6 (153)	86 (2185)	7.5 ft.	2.4 m
	45°	86 (2185)	4 (102)	26 (661)	10 (254)	86 (2185)		
Triple Element								
24" 33" 46"	0°	31 (788)	31 (788)	34 (864)	9 (229)	105 (2667)	9 ft.	2.8 m
	45°	105 (2667)	4 (102)	34 (864)	10 (254)	105 (2667)		

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

Clearances to combustibles distances represent a surface temperature of 90°F (50°C) above ambient temperature. Ensure that building materials with a low heat tolerance (i.e. awnings, fabrics, plastics, sprinklers, insulation) 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 factory or the building material manufacturer for additional information.

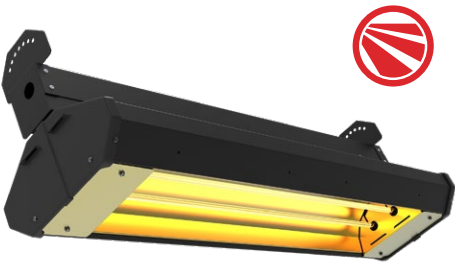
Sample Layouts



ELD Series Electric Infrared Heater

The ELD Series is a high wattage, commercial-grade electric heater offering. With dual elements and chassis options from 24 to 60 inches long, it's easy to configure the perfect heater for your space. A great choice for applications from outdoor patios to warehouses, the ELD Series can accommodate a wide variety of heating needs. Heaters are equipped with a specially

designed reflector for optimal radiant heat output and optional wall mounting brackets allow adjustment of the heating direction. The optional recessed mount kit allows the ELD Series to seamlessly blend into any decor.



Models range from 1,500 to 8,000 watts
Available in black or stainless steel finishes

KEY FEATURES

- Gold-colored anodized aluminum reflectors reduce glare
- Dual element design
- Elements available in high-output medium wave or standard medium wave
- 0° to 30° adjustable mounting brackets included
- Black powder-coated or brushed stainless steel housing
- High-temperature nylon end caps

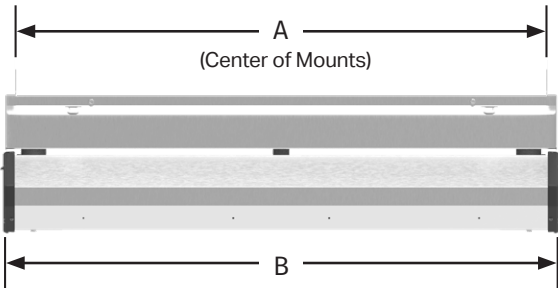
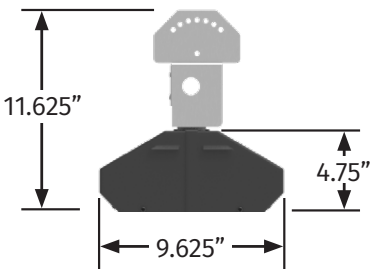


Specifications

SPECIFICATIONS	ELDM MODELS	ELDT MODELS
Electrical Consumption	1,500 to 6,000 Watts	2,720 to 8,000 Watts
Equivalent BTU	5,118 to 20,472	9,281 to 27,296
Voltage	120 to 575 VAC	
Lamp Element	Standard Medium Wave	High-Output Medium Wave
^Rcmd. Mounting Height	Varies from 6 ft. to 12 ft. based on model	
Weight	Varies based on model	
Approvals	Outdoor Commercial Indoor Commercial Outdoor Residential	
Limited Warranty		
Dimensions	A	B
ELD[M,T]-24[B,S]	23.50"	24.50"
ELD[M,T]-33[B,S]	32.50"	33.50"
ELD[M,T]-46[B,S]	45.50"	46.50"
ELD[M,T]-60[B,S]	59.50"	60.50"

^ Typical or recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from this data.

* Based upon lab conditions with no wind & targeted 15° temperature rise. Site conditions may vary.



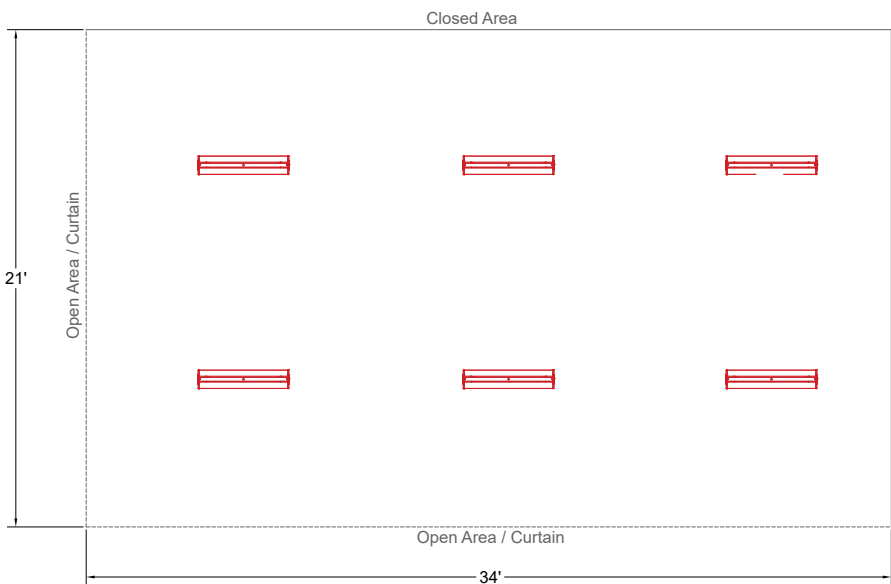
Clearances to Combustibles

Model	Mounting Angle*	Side		End	Top	Below	Min. Mtg. Height	
		Front	Behind				US	Canada
24" 33"	ELDM	0°	18 (457)	18 (457)	16 (406)	7 (178)	6 ft.	2.4 m
		30°	35 (889)	4 (102)	16 (406)	9 (229)		
	ELDT	0°	24 (610)	24 (610)	16 (406)	7 (178)		
		30°	39 (991)	6 (153)	16 (406)	9 (229)		
46"	ELDM	0°	23 (584)	23 (584)	16 (406)	7 (178)	7 ft.	2.4 m
		30°	42 (1067)	4 (102)	16 (406)	9 (229)		
	ELDT	0°	30 (762)	30 (762)	20 (508)	7 (178)		
		30°	50 (1270)	8 (203)	20 (508)	9 (229)		
60"	ELDM	0°	29 (737)	29 (737)	16 (406)	7 (178)	8 ft.	2.4 m
		30°	45 (1143)	6 (153)	16 (406)	9 (229)		
	ELDT	0°	36 (915)	36 (915)	20 (508)	7 (178)		
		30°	55 (1397)	9 (229)	20 (508)	9 (229)		

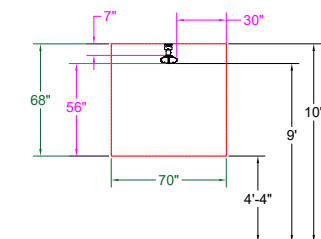
* Heaters mounted on an angle between 0° and 30° must maintain clearances posted for 0° or 30°, whichever is greater.

Clearances to combustibles distances represent a surface temperature of 90°F (50°C) above ambient temperature. Ensure that building materials with a low heat tolerance (i.e., awnings, fabrics, plastics, sprinklers, insulation) 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 factory or the building material manufacturer for additional information.

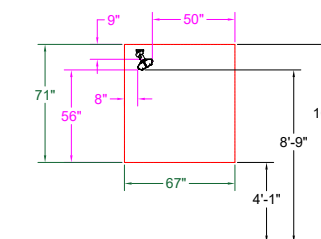
Sample Layouts



ELDM-46 Clearance to Combustible 0° Mount - Elevation View



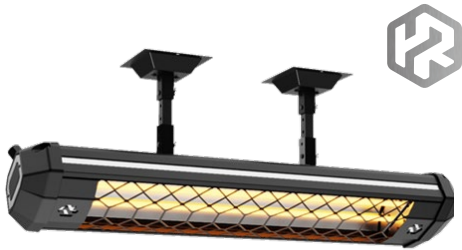
ELDM-46 Clearance to Combustible 30° Mount - Elevation View



HRE Series Architectural Electric Infrared Heater

The HRE Series is a high-wattage, commercial-grade electric infrared heater designed for applications where performance, durability, and appearance matter. Featuring a black powder-coated marine grade aluminum chassis, 316 marine grade stainless steel bus bar, and single or dual element

configurations, the HRE Series delivers powerful radiant heat in a clean, low-profile design. Ideal for restaurants, patios, hospitality spaces, coastal environments, and architectural applications, the HRE Series offers refined comfort with corrosion-resistant construction.



Models range from 750 to 8,000 watts
Available with colored trim kits

KEY FEATURES

- Clean, low-profile architectural design
- Marine-grade aluminum black powder-coated chassis
- Optional color and 316 marine-grade stainless steel add-ons
- Polished aluminum reflectors to optimize radiant heat output
- Elements available in standard medium wave and high-output medium wave
- 27, 36, 49, and 63 inch lengths

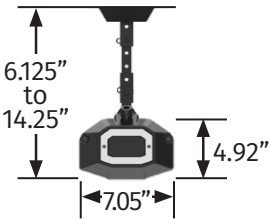


Specifications

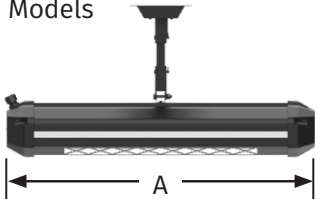
SPECIFICATIONS	HREM MODELS	HRET MODELS
Electrical Consumption	750 to 6,000 Watts	1,360 to 8,000 Watts
Equivalent BTU	2,559 to 20,472	4,641 to 27,296
Voltage	120 to 575 VAC	
Lamp Element	Standard Medium Wave	High-Output Medium Wave
^Rcmd. Mounting Height	Varies from 6 ft. to 12 ft. based on model	
Weight	Varies based on model	
Approvals	Outdoor Commercial Indoor Commercial Outdoor Residential	
Limited Warranty		
Dimensions	A	
HRE[M,T]-27B[1,2]	27.20"	
HRE[M,T]-36B[1,2]	36.20"	
HRE[M,T]-49B[1,2]	49.20"	
HRE[M,T]-63B[1,2]	63.20"	

^ Typical or recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from this data.

* Based upon lab conditions with no wind & targeted 15° temperature rise. Site conditions may vary.



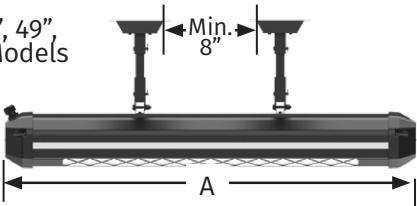
HRE 27" Models



Mount Heater Level
- End to End -



HRE 36", 49",
& 63" Models



Mount Heater Level
- End to End -

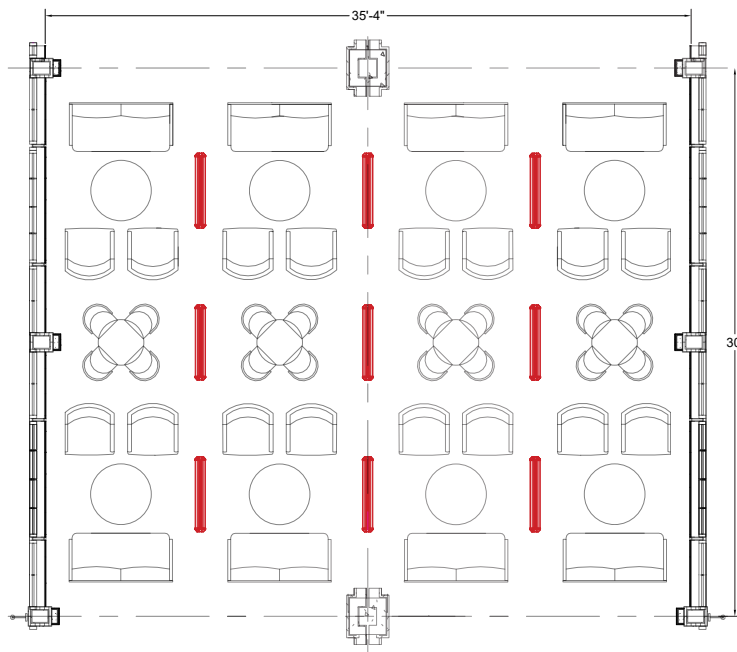
Clearances to Combustibles

Model		Mounting Angle*	Side		End	Top	Below	Min. Mtg. Height	
			Front	Behind				US	Canada
27" 36"	HREM	0°	17 (432)	17 (432)	10 (254)	6 (153)	48 (1220)	6 ft.	2.4 m
		30°	31 (788)	4 (102)	10 (254)	7 (178)	42 (1067)		
	HRET	0°	27 (686)	27 (686)	14 (356)	9 (229)	48 (1220)		
		30°	34 (864)	7 (178)	14 (356)	9 (229)	48 (1220)		
49"	HREM	0°	17 (432)	17 (432)	10 (254)	6 (153)	48 (1220)	7 ft.	2.4 m
		30°	31 (788)	4 (102)	10 (254)	7 (178)	42 (1067)		
	HRET	0°	30 (762)	30 (762)	14 (356)	9 (229)	61 (1550)		
		30°	42 (1067)	7 (178)	14 (356)	9 (229)	61 (1550)		
60"	HREM	0°	21 (534)	21 (534)	10 (254)	6 (153)	48 (1220)	8 ft.	2.4 m
		30°	31 (788)	4 (102)	10 (254)	7 (178)	42 (1067)		
	HRET	0°	33 (839)	33 (839)	14 (356)	8 (204)	61 (1550)		
		30°	49 (1245)	9 (229)	14 (356)	8 (204)	61 (1550)		

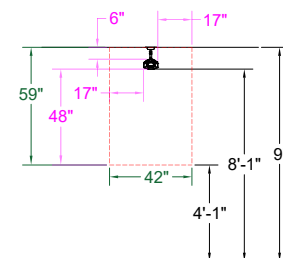
* Heaters mounted on an angle between 0° and 30° must maintain clearances posted for 0° or 30°, whichever is greater.

Clearances to combustibles distances represent a surface temperature of 90°F (50°C) above ambient temperature. Ensure that building materials with a low heat tolerance (i.e. awnings, fabrics, plastics, sprinklers, insulation) 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 factory or the building material manufacturer for additional information.

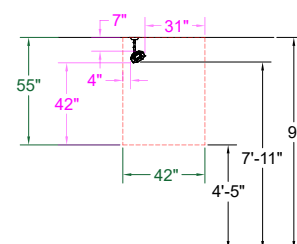
Sample Layout



HREM-49 Clearance to Combustible 0° Mount - Elevation View



HREM-49 Clearance to Combustible 30° Mount - Elevation View



TIPS:

- The below clearance is less when heaters are mounted on an angle.

DSS Series Medium Wave Electric Infrared Heater

Outdoor approved DSS Series heaters produce instant medium wave heat through the use of innovative carbon fiber lamps encased in an IP55 rated slim, compact, black enclosure. This heater offers a remote control with timer functionality and four power settings. Multiple heaters can be controlled by a single remote.

Operational benefits include a highly efficient energy transfer, even heat distribution, and intense heat output.



Models range from 1,500 to 2,500 watts

KEY FEATURES

- IP55 rated for outdoor use
- Compact, slim design
- Remote control with 4 power settings
- Overheat and tip-over protection
- High-efficiency carbon fiber lamps
- Consistent clearances to combustibles across all models



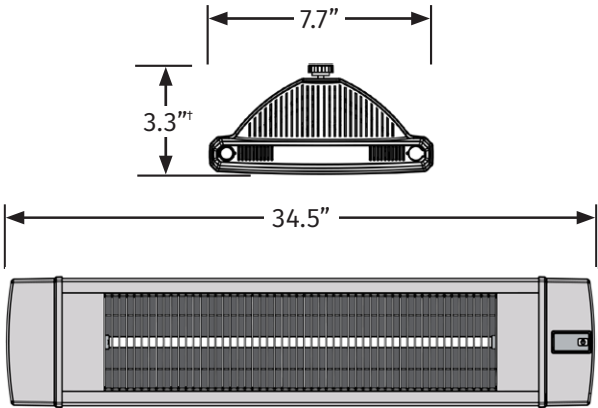
Specifications

SPECIFICATIONS	DSS-35B-A15	DSS-35B1-C25
Electrical Consumption	1,500 Watts	2,500 Watts
Equivalent BTU	5,118	8,530
Voltage	120 VAC	230 VAC
Lamp Element	Carbon Fiber	
^Rcmd. Mounting Height	6 ft. to 8 ft.	7 ft. to 11 ft.
*Approx. Area Heated	75 sq. ft.	120 sq. ft.
Weight	6.6 lbs.	
Approvals	Outdoor Commercial Indoor Commercial Outdoor Residential	
Limited Warranty	1-year all components	

^ Typical or recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from this data.

* Based upon lab conditions with no wind & targeted 15° temperature rise. Site conditions may vary.

† This dimension doesn't include mounting bracket. Mounting bracket is 4" high in its vertical orientation without included angle bracket.



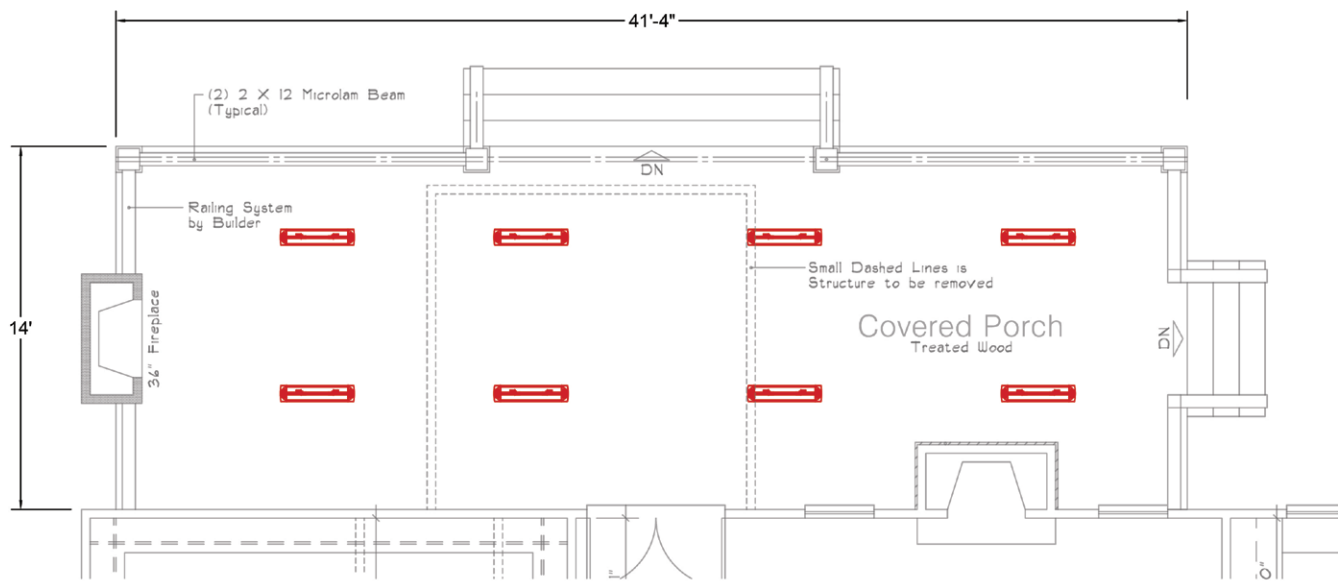
Clearances to Combustibles

Model Wattage	Mounting Angle*	Side		End	Top	Below
		Front	Behind			
All Models	0°	13"	13"	11"	4"	50"
	45°	37"	2"	11"	5"	35"

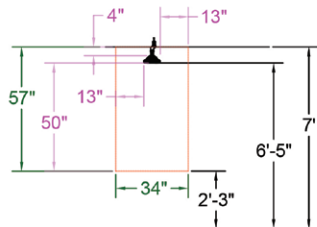
* Heaters mounted on an angle between 0° and 45° must maintain clearances posted for 0° or 45°, whichever is greater.

Clearances to combustibles distances represent a surface temperature of 90°F (50°C) above ambient temperature. Ensure that building materials with a low heat tolerance (i.e. awnings, fabrics, plastics, sprinklers, insulation) 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 factory or the building material manufacturer for additional information.

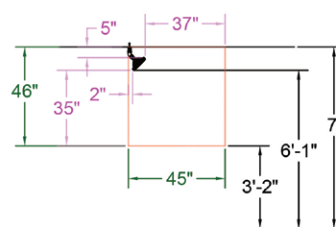
Sample Layout



DSS Clearance to Combustible 0° Mount - Elevation View



DSS Clearance to Combustible 45° Mount - Elevation View



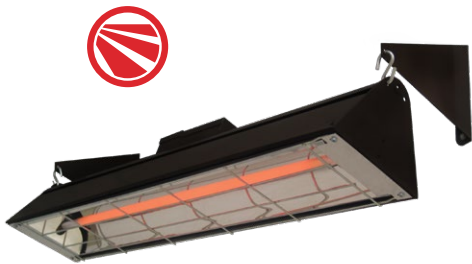
TIPS:

- DSS Series heaters are IP55 rated. However, to ensure the longest possible service life, it is still recommended to ensure there is sufficient protection above the level of the heater (while maintaining clearances to combustibles) to protect against outside elements.

BAH Series Electric Infrared Heater

The BAH Series is a time-tested electric heater perfect for many types of indoor applications. Its mild white, medium wave element works well for areas where moderate heat is desired, but excessive visible light is not. The black-coated chassis is sturdy and aesthetically pleasing for a heater that is functional, yet unobtrusive.

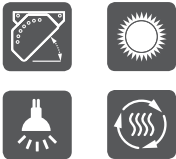
With five heater lengths available, voltage options ranging from 120 to 575 VAC, and wattage choices from 1,000 to 4,000 W, the BAH Series works well for spot heating, shop offices, workstations, and a myriad of other indoor applications.



Models range from 1,000 to 4,000 watts

KEY FEATURES

- Black-coated chassis design
- Available in five different lengths
- 0° to 20° adjustable mounting brackets included
- Consistent clearances to combustibles across all models

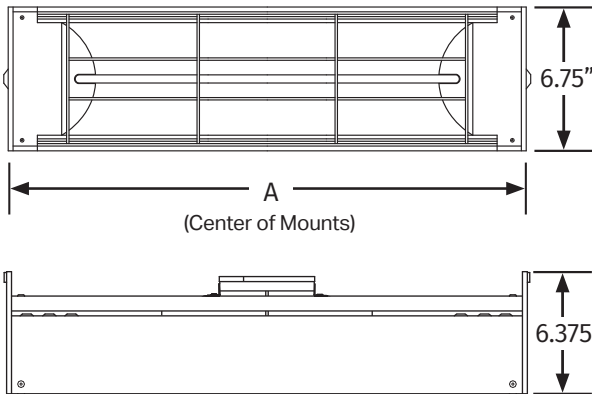


Specifications

SPECIFICATIONS	ALL MODELS
Electrical Consumption	1,000 to 4,000 Watts
Equivalent BTU	3,400 to 13,500
Voltage	120 to 575 VAC
Lamp Element	Coiled Tungsten
^Rcmd. Mounting Height	Varies from 7 ft. to 12 ft. based on model
Weight	Varies based on model
Approvals	Indoor Commercial
Limited Warranty	1-year all components
Dimensions	A
BAH-25	25.00"
BAH-35	35.00"
BAH-45	45.00"
BAH-60	60.00"

^ Typical or recommended mounting heights are provided as a guideline. Actual conditions may dictate variations from this data.

* Based upon lab conditions with no wind & targeted 15° temperature rise. Site conditions may vary.



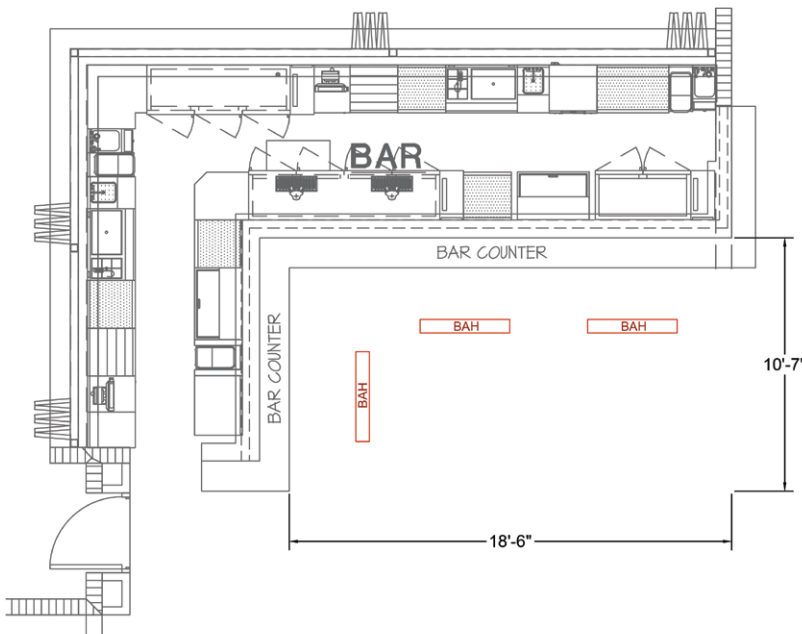
Clearances to Combustibles

Model Wattage	Mounting Angle*	Side		End	Top	Below
		Front	Behind			
All Models	0°	18"	18"	24"	12"	24"
	20°	18"	18"	24"	12"	24"

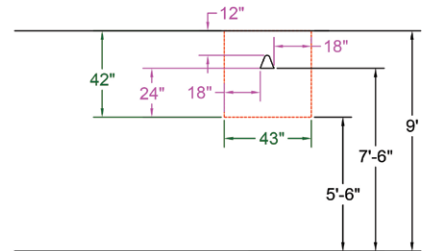
* Heaters mounted on an angle between 0° and 20° must maintain clearances posted for 0° or 20°, whichever is greater.

Clearances to combustibles distances represent a surface temperature of 90°F (50°C) above ambient temperature. Ensure that building materials with a low heat tolerance (i.e, awnings, fabrics, plastics, sprinklers, insulation) 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 factory or the building material manufacturer for additional information.

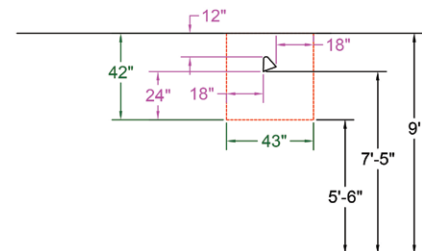
Sample Layout



BAH All Models Clearance to Combustible 0° Mount - Elevation View



BAH All Models Clearance to Combustible 20° Mount - Elevation View





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