

HOT RHOD HEATER
SUBMITTAL SHEET

HRE SERIES ELECTRIC HEATERS

SINGLE AND DUAL ELEMENT ELECTRIC INFRARED HEATERS

PROJECT ID: _____	ADDRESS: _____
PROJECT NAME: _____	_____
DATE: _____	CITY: _____ STATE: _____ ZIP: _____
Submitted By: _____	
Company: _____	Address: _____
Phone: _____	City: _____
Email: _____	State: _____ Zip: _____
.....	
Engineer: _____	Contractor: _____
Phone/Email: _____	Phone/Email: _____
Address: _____	Address: _____
City: _____	City: _____
State: _____ Zip: _____	State: _____ Zip: _____

CHOOSING AN HRE MODEL

The HRE Series offers a variety of configurable options including housing color, length, voltage, wattage, and element type to fit a wide range of applications.

VOLTAGE OPTIONS

The HRE Series is available in several voltages including 120, 208, 240, 277, 480, and 575 V. The voltage available to the space is an important consideration when determining which chassis and element type to select as voltage is directly related to wattage.

CHASSIS OPTIONS

The HRE Series is available in four chassis lengths to accommodate a variety of mounting heights, heat coverage needs, and application types. Each chassis is available with a single or dual element, and features a black powder-coated marine grade aluminum housing.

CUSTOMIZE THE LOOK

Optional trim kits are available for enhanced visual customization or added corrosion resistance.

See trim add-on options on page 4.

AVAILABLE CHASSIS LENGTHS



27" Chassis



36" Chassis



49" Chassis



63" Chassis


**DETROIT RADIANT
PRODUCTS COMPANY**

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Warren, MI 48089 | www.reverberray.com

LSHRE-07/26 (DRPC)

MEDIUM WAVE MODELS

750 to 6,000 Watts

	Model Number	Replacement Lamp	Voltage*	Total Amps	Total Watts	BTU/h	Weight
SINGLE ELEMENT MODELS	HREM-27B1-120-.75	EL-MW-A24	120	6.25	750	2,559	9.5 lbs.
	HREM-27B1-208-.75	EL-MW-B24	208	3.61	750	2,559	9.5 lbs.
	HREM-27B1-240-.75	EL-MW-C24	240	3.13	750	2,559	9.5 lbs.
	HREM-27B1-277-.75	EL-MW-D24	277	2.71	750	2,559	9.5 lbs.
	HREM-36B1-120-1.25	EL-MW-A33	120	10.42	1,250	4,265	14 lbs.
	HREM-36B1-208-1.25	EL-MW-B33	208	6.01	1,250	4,265	14 lbs.
	HREM-36B1-240-1.25	EL-MW-C33	240	5.21	1,250	4,265	14 lbs.
	HREM-36B1-277-1.25	EL-MW-D33	277	4.51	1,250	4,265	14 lbs.
	HREM-49B1-208-2.0 ¹	EL-MW-B46	208	9.62	2,000	6,824	16 lbs.
	HREM-49B1-240-2.0 ¹	EL-MW-C46	240	8.33	2,000	6,824	16 lbs.
	HREM-49B1-277-2.0 ¹	EL-MW-D46	277	7.22	2,000	6,824	16 lbs.
	HREM-49B1-480-2.0 ¹	EL-MW-G46	480	4.17	2,000	6,824	16 lbs.
	HREM-49B1-575-2.0 ¹	EL-MW-H46	575	3.48	2,000	6,824	16 lbs.
	HREM-63B1-208-3.0 ¹	EL-MW-B60-3.0	208	14.42	3,000	10,236	21 lbs.
	HREM-63B1-240-3.0 ¹	EL-MW-C60-3.0	240	12.50	3,000	10,236	21 lbs.
	HREM-63B1-277-3.0 ¹	EL-MW-D60-3.0	277	10.83	3,000	10,236	21 lbs.
DUAL ELEMENT MODELS	HREM-27B2-120-1.5	EL-MW-A24	120	12.50	1,500	5,118	11.5 lbs.
	HREM-27B2-208-1.5	EL-MW-B24	208	7.22	1,500	5,118	11.5 lbs.
	HREM-27B2-240-1.5	EL-MW-C24	240	6.25	1,500	5,118	11.5 lbs.
	HREM-27B2-277-1.5	EL-MW-D24	277	5.42	1,500	5,118	11.5 lbs.
	HREM-36B2-120-2.5	EL-MW-A33	120	20.83	2,500	8,530	17 lbs.
	HREM-36B2-208-2.5	EL-MW-B33	208	12.02	2,500	8,530	17 lbs.
	HREM-36B2-240-2.5	EL-MW-C33	240	10.42	2,500	8,530	17 lbs.
	HREM-36B2-277-2.5	EL-MW-D33	277	9.03	2,500	8,530	17 lbs.
	HREM-49B2-208-4.0 ¹	EL-MW-B46	208	19.23	4,000	13,648	20 lbs.
	HREM-49B2-240-4.0 ¹	EL-MW-C46	240	16.67	4,000	13,648	20 lbs.
	HREM-49B2-277-4.0 ¹	EL-MW-D46	277	14.44	4,000	13,648	20 lbs.
	HREM-49B2-480-4.0 ¹	EL-MW-G46	480	8.33	4,000	13,648	20 lbs.
	HREM-49B2-575-4.0 ¹	EL-MW-H46	575	6.96	4,000	13,648	20 lbs.
	HREM-63B2-208-6.0 ¹	EL-MW-B60-3.0	208	28.85	6,000	20,472	25 lbs.
	HREM-63B2-240-6.0 ¹	EL-MW-C60-3.0	240	25.00	6,000	20,472	25 lbs.
	HREM-63B2-277-6.0 ¹	EL-MW-D60-3.0	277	21.66	6,000	20,472	25 lbs.

¹ Not available to ship via UPS. Truckline only.

* Heaters are configured at the factory for single phase wiring. If three phase service is desired, it must be wired as such in the field by a trained installer / electrical contractor.

HIGH OUTPUT MEDIUM WAVE MODELS

1,360 to 8,000 Watts

	Model Number	Replacement Lamp	Voltage*	Total Amps	Total Watts	BTU/h	Weight
SINGLE ELEMENT MODELS	HRET-27BI-120-1.36	EL-HO-A24	120	11.33	1,360	4,641	9.5 lbs.
	HRET-27BI-208-1.36	EL-HO-B24	208	6.54	1,360	4,641	9.5 lbs.
	HRET-27BI-240-1.36	EL-HO-C24	240	5.67	1,360	4,641	9.5 lbs.
	HRET-27BI-277-1.36	EL-HO-D24	277	4.91	1,360	4,641	9.5 lbs.
	HRET-27BI-480-1.36	EL-HO-G24	480	2.83	1,360	4,641	9.5 lbs.
	HRET-36BI-208-2.0	EL-HO-B33-2.0	208	9.62	2,000	6,824	14 lbs.
	HRET-36BI-240-2.0	EL-HO-C33-2.0	240	8.33	2,000	6,824	14 lbs.
	HRET-36BI-277-2.0	EL-HO-D33-2.0	277	7.22	2,000	6,824	14 lbs.
	HRET-36BI-480-2.0	EL-HO-G33-2.0	480	4.17	2,000	6,824	14 lbs.
	HRET-36BI-208-2.13	EL-HO-B33	208	10.22	2,125	7,251	14 lbs.
	HRET-36BI-240-2.13	EL-HO-C33	240	8.85	2,125	7,251	14 lbs.
	HRET-36BI-277-2.13	EL-HO-D33	277	7.67	2,125	7,251	14 lbs.
	HRET-36BI-480-2.13	EL-HO-G33	480	4.43	2,125	7,251	14 lbs.
	HRET-49BI-240-3.0 ²	EL-HO-C46-3.0	240	12.50	3,000	10,236	16 lbs.
	HRET-49BI-277-3.0 ²	EL-HO-D46-3.0	277	10.83	3,000	10,236	16 lbs.
	HRET-49BI-480-3.0 ²	EL-HO-G46-3.0	480	6.25	3,000	10,236	16 lbs.
	HRET-49BI-277-3.2 ²	EL-HO-D46	277	11.55	3,200	10,919	16 lbs.
	HRET-49BI-480-3.2 ²	EL-HO-G46	480	6.66	3,200	10,919	16 lbs.
	HRET-49BI-575-3.2 ²	EL-HO-H46	575	5.56	3,200	10,919	16 lbs.
	HRET-63BI-277-3.25 ²	EL-HO-D60-3.25	277	11.73	3,250	11,090	21 lbs.
	HRET-63BI-480-3.25 ²	EL-HO-G60-3.25	480	6.77	3,250	11,090	21 lbs.
DUAL ELEMENT MODELS	HRET-27B2-120-2.72	EL-HO-A24	120	22.67	2,720	9,281	11.5 lbs.
	HRET-27B2-208-2.72	EL-HO-B24	208	13.08	2,720	9,281	11.5 lbs.
	HRET-27B2-240-2.72	EL-HO-C24	240	11.33	2,720	9,281	11.5 lbs.
	HRET-27B2-277-2.72	EL-HO-D24	277	9.82	2,720	9,281	11.5 lbs.
	HRET-27B2-480-2.72	EL-HO-G24	480	5.67	2,720	9,281	11.5 lbs.
	HRET-36B2-208-4.0	EL-HO-B33-2.0	208	19.23	4,000	13,648	17 lbs.
	HRET-36B2-240-4.0	EL-HO-C33-2.0	240	16.67	4,000	13,648	17 lbs.
	HRET-36B2-277-4.0	EL-HO-D33-2.0	277	14.44	4,000	13,648	17 lbs.
	HRET-36B2-480-4.0	EL-HO-G33-2.0	480	8.33	4,000	13,648	17 lbs.
	HRET-36B2-208-4.25	EL-HO-B33	208	20.43	4,250	14,501	17 lbs.
	HRET-36B2-240-4.25	EL-HO-C33	240	17.71	4,250	14,501	17 lbs.
	HRET-36B2-277-4.25	EL-HO-D33	277	15.34	4,250	14,501	17 lbs.
	HRET-36B2-480-4.25	EL-HO-G33	480	8.85	4,250	14,501	17 lbs.
	HRET-49B2-240-6.0 ²	EL-HO-C46-3.0	240	25.00	6,000	20,472	20 lbs.
	HRET-49B2-277-6.0 ²	EL-HO-D46-3.0	277	21.66	6,000	20,472	20 lbs.
	HRET-49B2-480-6.0 ²	EL-HO-G46-3.0	480	12.50	6,000	20,472	20 lbs.
	HRET-49B2-575-6.0 ²	EL-MW-H46	575	10.43	6,000	20,472	20 lbs.
	HRET-49B2-277-6.4 ²	EL-HO-D46	277	23.10	6,400	21,837	20 lbs.
	HRET-49B2-480-6.4 ²	EL-HO-G46	480	13.33	6,400	21,837	20 lbs.
	HRET-49B2-575-6.4 ²	EL-HO-H46	575	11.13	6,400	21,837	20 lbs.
	HRET-63B2-277-6.5 ²	EL-HO-D60-3.25	277	23.47	6,500	22,178	25 lbs.
	HRET-63B2-480-6.5 ²	EL-HO-G60-3.25	480	13.54	6,500	22,178	25 lbs.
	HRET-63B2-480-8.0 ²	EL-HO-G60	480	16.67	8,000	27,296	25 lbs.
	HRET-63B2-575-8.0 ²	EL-HO-H60	575	13.91	8,000	27,296	25 lbs.

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* Heaters are configured at the factory for single phase wiring. If three phase service is desired, it must be wired as such in the field by a trained installer / electrical contractor.

FEATURED SPECIFICATIONS

APPROVALS

- UL Listed
- Indoor & Outdoor Commercial/Industrial Approval
- Outdoor Residential Approval

HEATER CONSTRUCTION

- Black powder-coat marine grade aluminum housing
- Optional add-on trim kits
- High temperature louvered nylon end caps

LAMP ELEMENTS

- Single or dual element design featuring standard medium wave and high-output medium wave element options
- Coiled tungsten filament housed within a sealed quartz tubing
- Instantaneous heat-up and cool-down

ELECTRICAL SUPPLY

- Voltages from 120 to 575 VAC
- Single-phase (can be wired in field as three-phase)
- 750 to 4,000 W per element

CONTROLS

- Field supplied

MOUNTING

- 0° to 30° adjustable brackets

REFLECTORS

- Polished aluminum reflectors efficiently direct radiant heat
- Wide, symmetric design

LIMITED WARRANTY

- 1 year—All components
- Please contact the factory for further information on the terms and conditions.*

TRIM KIT ADD-ONS

Optional trim kit add-ons allow the HRE Series to better coordinate with the surrounding design aesthetic. Standard units include aluminum trim pieces on the sides, ends, and egg crate logos, while black, red, blue, and gold trim kits provide added visual customization. For coastal or corrosion-prone environments, the 316 marine grade stainless steel add-on upgrades both the trim pieces and egg crate. **Trim kit add-ons must be ordered at the time of heater manufacture.**

 ALUMINUM TRIM Default - No Add-On Required	 BLACK TRIM KIT ☐ HRE-TK-BK	 BLUE TRIM KIT ☐ HRE-TK-BL
 GOLD TRIM KIT ☐ HRE-TK-GL	 RED TRIM KIT ☐ HRE-TK-RD	 316 MARINE GRADE SS TRIM KIT ☐ HRE-TK-MG

OPTIONAL ACCESSORIES

- | | |
|---|---|
| ☐ HRE-RM-27B1 | Black finish recessed mount—fits 27" chassis |
| ☐ HRE-RM-36B1 | Black finish recessed mount—fits 36" chassis |
| ☐ HRE-RM-49B1 | Black finish recessed mount—fits 49" chassis |
| ☐ HRE-RM-63B1 | Black finish recessed mount—fits 63" chassis |
| ☐ HRE-RM-27S1 | Stainless steel recessed mount—fits 27" chassis |
| ☐ HRE-RM-36S1 | Stainless steel recessed mount—fits 36" chassis |
| ☐ HRE-RM-49S1 | Stainless steel recessed mount—fits 49" chassis |
| ☐ HRE-RM-63S1 | Stainless steel recessed mount—fits 63" chassis |



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HOT RHOD SAFETY SUBMITTAL SHEET

HRE SERIES CLEARANCES TO COMBUSTIBLES

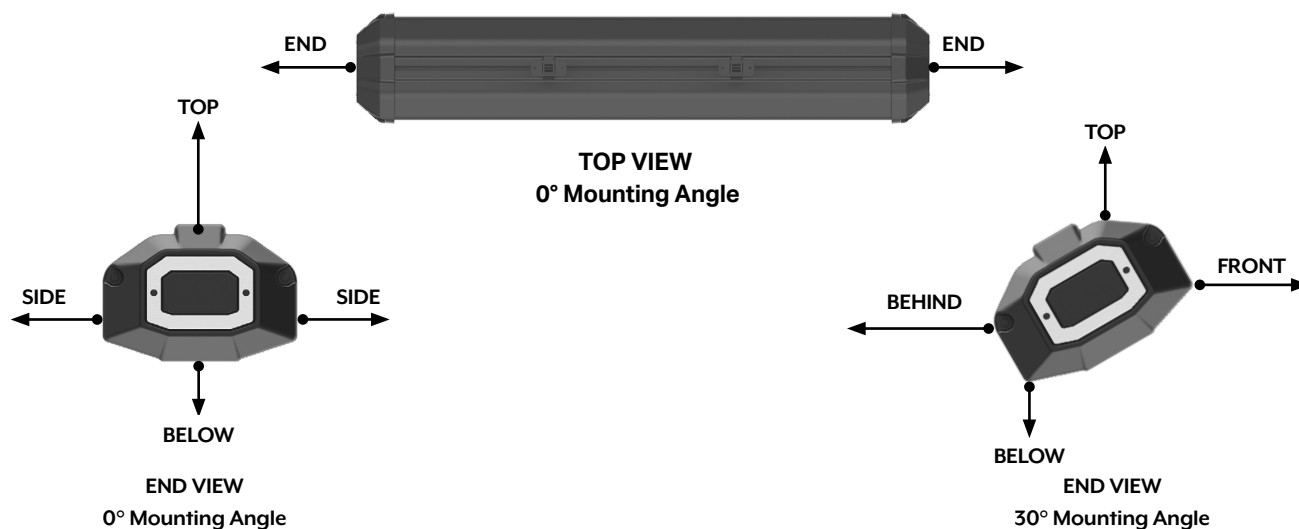
All listed clearances to combustibles are in inches.

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
		31 (788)	4 (102)	10 (254)	7 (178)	42 (1067)		
	HRET 0°	27 (686)	27 (686)	14 (356)	9 (229)	48 (1220)		
		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
		31 (788)	4 (102)	10 (254)	7 (178)	42 (1067)		
	HRET 0°	30 (762)	30 (762)	14 (356)	9 (229)	61 (1550)		
		42 (1067)	7 (178)	14 (356)	9 (229)	61 (1550)		
63"	HREM 0°	21 (534)	21 (534)	10 (254)	6 (153)	48 (1220)	8 ft.	2.4 m
		31 (788)	4 (102)	10 (254)	7 (178)	42 (1067)		
	HRET 0°	33 (839)	33 (839)	14 (356)	8 (204)	61 (1550)		
		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 must be maintained when using recessed mount kits (P/N: HRE-RM-XXXX). For additional information, refer to form # LSH123c - Recessed Mounting Frame Installation Instructions or contact the factory.

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.



Read and understand the installation, operation, and maintenance manual prior to installing or servicing this unit.

In locations used for the storage of combustible materials, signs must be posted adjacent to the heater's thermostat specifying stacking heights.



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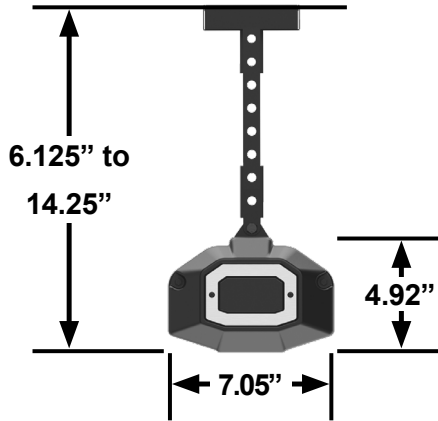
Phone: (586) 756-0950
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LSHREC-07/26 (DRPC)

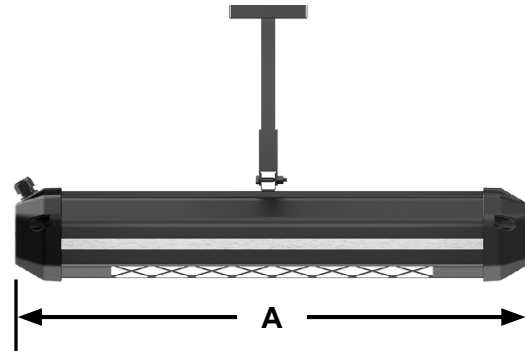
HOT RHOD DIMENSIONAL SUBMITTAL SHEET

HRE SERIES DIMENSIONS

Drawing NTS



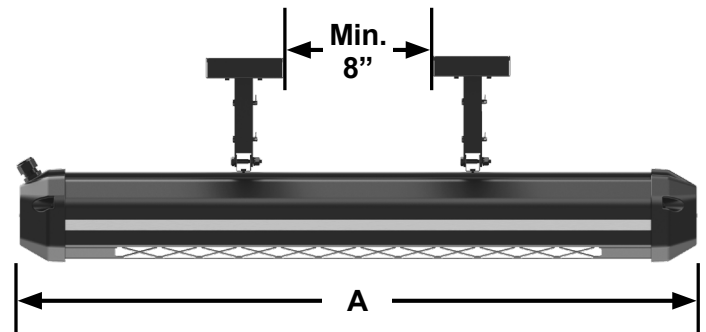
HRE 27" Models



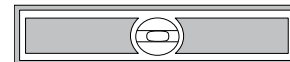
Mount Heater Level
- End to End -



HRE 36", 49", & 63" Models



Mount Heater Level
- End to End -



MODEL NO.	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



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LSHREd-07/26 (DRPC)

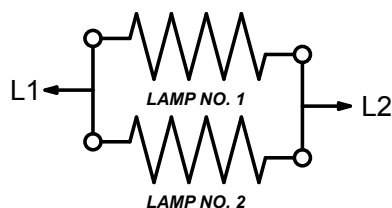
HRE SERIES WIRING DIAGRAMS

HOT RHOD WIRING
SUBMITTAL SHEET

Wiring Diagram for Single Element Models

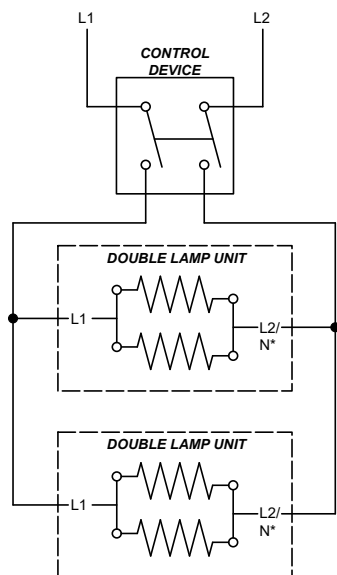


Wiring Diagram for Dual Element Models



Single Phase Service

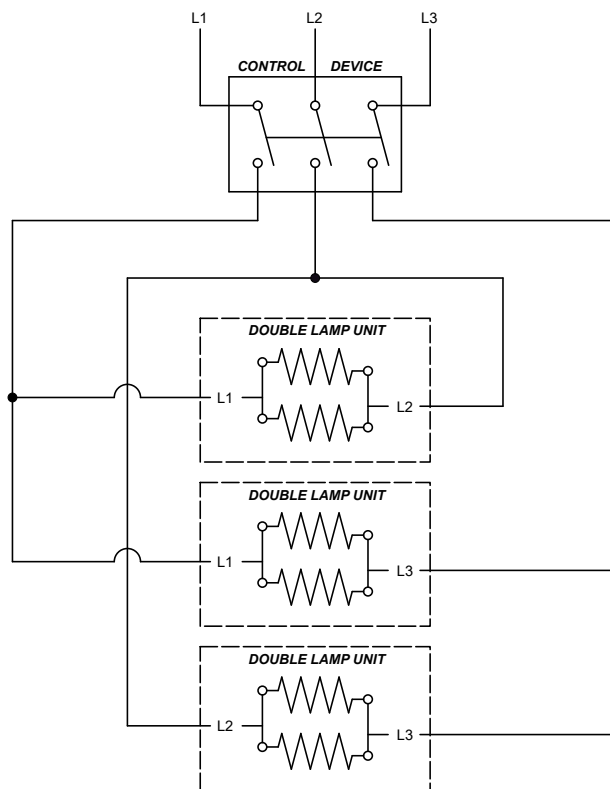
Heaters are built as single phase.



*N for 120 V and 277 V

Three Phase Service

Field configured.



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LSHREw-07/26 (DRPC)

HOT RHOD HEATER SUBMITTAL SHEET

HRE SERIES HIGH INTENSITY HEATERS

SINGLE AND DUAL ELEMENT ELECTRIC INFRARED HEATERS

ELECTRIC RADIANT HEATERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Detroit Radiant Products Company; Hot Rhod HRE Series.
- B. Electric heaters must be UL Listed to operate at the designated rating of _____ kW/h.
- C. Heaters shall operate in given voltages:

<u>Volt</u>	<u>Phase</u>	<u>Hertz</u>
120	1	50/60
208	1 or 3	50/60
240	1 or 3	50/60
277	1 or 3	50/60
480	1 or 3	50/60
575	1 or 3	50/60
- D. Heaters shall operate in given wattage inputs of 750 to 8,000 W.
- E. Heater housing shall be constructed of black powder-coated marine grade aluminum.
- F. Heater shall include high-temperature nylon louvered end caps. Nylon material shall have V-0 and 5VA flame class ratings, a 100°C minimum RTI, and comply with impact and mold stress-relief tests of UL 746C.
- G. Reflector shall have a multi-faceted design and be constructed of polished aluminum for the purpose of efficiently directly radiant heat.
- H. Busbar shall be made of 316 marine grade stainless steel.
- I. Heater shall include one (1) or two (2) lamp elements. Lamp element tubing shall be a clear quartz tube with [medium wave] [high-output medium wave] output. Metal sheath types shall not be permitted.
- J. Protective grill shall be black powder-coated marine grade aluminum or 316 marine grade stainless steel.
- K. Factory supplied mounting brackets shall accommodate for sidewall or ceiling mounting.