

# RPH Series Outdoor Rated Stainless Steel Electric Infrared Heater



- Instant, high-intensity radiant heat, with 30° symmetric heat pattern.
- Listed for indoor spot heating and for outdoor unprotected applications.
- Specialized Ruby "Red" Quartz Lamp infrared heating element for glare reduction.
- Stainless Steel housing with Coilzak Aluminum reflector for good reflectivity & corrosion resistance.
- Heating element and mounting plate included.
- Dimensions: 24" x 5 3/8" x 4 1/2."
- Made in U.S.A.



Mounting Plate (provided) on top center allows heater to be mounted parallel or angled using a standard pipe nipple and box cover (supplied by installer)

MOUNTING CLEARANCES				RECOMMENDED MOUNTING HEIGHT	
6" from ceiling				RPH-208	8'-12'
24" from vertical surface				RPH-240	8'-12'
72" from face of heater to combustible surface					

MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	BTUs	VOLTS	PHASE	AMPS	REPLACEMENT QUARTZ LAMP	WT. (LBS)	OPTIONAL WIREGUARD	
									MFG CATALOG NUMBER	MFG MODEL NUMBER
08845039	RPH-208-A	1600	5,461	208	1	7.7	632-1620	5	08809902	RPHWG
08845139	RPH-240-A	1600	5,461	240	1	6.7	632-1624	5		

## MM Series "Mitey Midget" Electric Infrared Heater



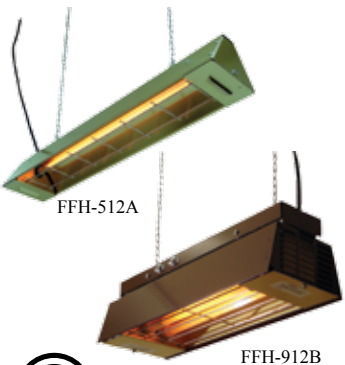
- Instant, high-intensity radiant heat, with 60° symmetric heat pattern.
- MM heaters excel as people-heaters in areas requiring a linear, compact & concentrated heat source.
- Listed for indoor industrial and commercial comfort heat applications.
- Heavy duty Aluminum extrusion with a bright Aluminum insert for maximum reflectivity.
- Anodized Aluminum housing, (0.62" thick).
- Heat Element Sold Separately.
- Dimensions: 3.750" Wide x 3.380" High.
- Made in U.S.A.

Mounting Clearances
24" from ceiling & from vertical surface
24" from face of heater to combustible surface
36" from another heater

MFG CATALOG NUMBER	MFG MODEL NUMBER	MAX WATTS	MAX BTUs	MAX VOLTS	PH	UNIT LENGTH	WT. (LBS)	OPTIONAL WIREGUARDS	
								MFG CATALOG NUMBER	MFG MODEL NUMBER
04440102	MM-13A	500	1707	120	1	13"	3	04439002	MMWG-13
04495402	MM-24A	900 / 1600	5461	277	1	24"	5	04418902	MMWG-24
04427202	MM-33A	2500	8533	600	1	33"	6	04439202	MMWG-33
04420302	MM-46A	3000 / 3800	12457	600	1	46"	7	04420402	MMWG-46

Note: All MM-13A through MM-46A models are ETL Listed for use with Quartz Lamps Only! Lamp voltage must match supply voltage.

## FFH Series Electric Utility Infrared Heater



- Both FFH Series Heaters are excellent for Farrowing & Finishing applications.
- Both units feature an 8 ft. 18/3 grounded cordset to plug into any 120V service.
- Gold anodized Aluminum reflectors, with a 90° symmetrical reflector pattern.
- Compact housing design, with the following housing finish:  
FFH-512A: Gold Anodized Finish  
FFH-912B: Brown Enamel Finish
- Quartz Tubes Heat Element(s), Wire Guard & (2) 4' ft. Jack Chains are included.
- FFH-912B Only: Offers (2) On/Off toggle switches to operate heating elements independently.
- Listed for indoor industrial and commercial comfort heat
- Made in U.S.A.

SIZING CHART - FFH SERIES					
MOUNTING HEIGHT	HEATER MODEL	LENGTH	WIDTH	COVERAGE (Sq. Ft.)	WATTS / Sq. Ft.
6'	FFH-512A	7	6	42	13.1
	FFH-912B	6	7	42	21.4
7'	FFH-512A	8	7	56	9.8
	FFH-912B	7	8	56	16.1
8'	FFH-512A	9	8	72	7.6
	FFH-912B	8	9	72	12.5

MOUNTING CLEARANCES
3" from ceiling
24" from vertical surface
72" from floor



MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	BTUs	VOLTS	PHASE	AMPS	REPLACEMENT QUARTZ TUBE	WT. (LBS)	Dimensions (in.)		
									Length	Width	Height
08838900	FFH-512A	550	1877	120	1	5	671-3492	4	22	5	3
08827814	FFH-912B	450/900	3072	120	1	8	671-3454	4	17	6	4

# Electric Infrared Heating Elements

## Clear & Red Quartz Lamps

MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	VOLTS	LENGTH (IN.)		ENVELOPE TYPE	FITS MODEL				
				Overall	Heated						
04400502	630-05129	500	120	8 1/16	5	CLEAR	MM-13A				
04401602	630-16209	1600	208	19 1/16	16		CLEAR	222, 223, or MM-24A			
04401702	630-16249		240								
04409902	631-16249		240								
04401802	630-16279		277								
04817302	630-16489	2500	480	28 1/16	25			CLEAR	342, 343, or MM-33A		
04817402	630-25209		208								
04817502	630-25249		240								
04817602	630-25279		277								
04405402	630-25489	3650	480	41 1/16	38				CLEAR	462, 463, or MM-46A	
04403602	631-25489		480								
04406802	631-25609		600								
04406702	630-36489		480								
04462302	630-38579	3800	600	41 1/16	38					CLEAR	462, 463, or MM-46A
04441302	631-38579		600								
04461502	632-1620	1600	208	19 1/16	16	RED	222/223 or RPH				
04461602	632-1624		240								
04462202	632-2548	2500	480	28 1/16	25		RED				342 or 343

- Near wavelength infrared, color temp. emitted: approx. 4100° F (high brightness).
- Approximately 96% radiant efficiency.
- Excellent resistance to thermal shock.
- Highest moisture resistance and quickest heat-up time.
- 3/8" Diameter clear or red quartz envelope.
- Coiled tungsten filament; sealed porcelain end caps; halogen gas filled.

Model prefix types:  
 630 = Horizontal Burning "Clear"  
 631 = Vertical OR Horizontal Burning "Clear"  
 632 = Horizontal Burning "Red"

Notes:  
 Life expectancy of all heating elements - 5,000 hours.  
 All heating elements operate at 50 / 60 Hertz.

## Quartz Tubes

Notes: Life expectancy of all heating elements - 5,000 hours.  
 All heating elements operate at 50 / 60 Hertz.

MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	VOLTS	LENGTH (IN.)		FITS MODEL
				Overall	Heated	
04432302	671-3784	1500	120	39 1/16	34 3/16	OCH-46
04418102	671-5061	2000	208	39 1/16	34 3/16	
04418002	671-3785	2000	240	39 1/16	34 3/16	
04419302	671-5018	2000	277	39 1/16	34 3/16	OCH-57
04416602	671-5060	3000	208	50 1/16	45 3/16	
04414702	671-3786	3000	240	50 1/16	45 3/16	
04419402	671-5059	3000	277	50 1/16	45 3/16	
04419502	671-5058	2250	480	50 1/16	45 3/16	FFH-912B
04403502	671-3454	450	120	12 15/16	8 3/16	
04400802	671-3492*	550	120	19 1/2	16	
04462402	671-5056	1000	120	18 5/16	14 3/16	
04462502	671-5057	1425	240	27 3/16	23 3/16	
						CH-6424-1C

\*3/8" Diameter

- Medium wavelength infrared, color temp. emitting approx. 1800°F (bright orange glow)
- Approximately 60% radiant efficiency
- Nickel-Chromium alloy coiled element with porcelain end caps and pigtailed termination
- 5/8" Diameter frosted quartz envelope
- Fast heat-up/cool-down

## Flat Panel Emitter Replacement Complete Conversion Kits - MR, CH, & FHK

CH & MR SERIES - FLAT PANEL EMITTER CONVERSION KITS				
MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	VOLTS	FOR USE WITH OLD MODEL #:
01358102	64337-022	3150	208	MR-420-1, CH-420-1C, CH-420-3A
01358202	64337-023		240	MR-424-1, CH-424-1C, CH-424-1A
01358302	64337-024		277	MR-427-1, CH-427-1C, CH-427-1A
01358402	64337-025		480	MR-448-1, CH-448-1C, CH-448-1A
01358502	64337-026		600	MR-457-1, CH-457-1C, CH-457-1A
01358602	64337-027	4300	208	MR-620-3, CH-620-3C, CH-620-3A
01358702	64337-028		240	MR-624-3, CH-624-3C, CH-624-3A
01358802	64337-029		277	MR-627-3, CH-627-3C, CH-627-3A
01358902	64337-030		480	MR-648-3, CH-648-3C, CH-648-3A
01359002	64337-031		600	MR-657-3, CH-657-3C, CH-657-3A
01359102	64337-032	9500	208	MR-1320-3, CH-1320-3B, CH-1320-3A
01359202	64337-033		240	MR-1324-3, CH-1324-3B, CH-1324-3A
01359302	64337-034		277	MR-1327-3, CH-1327-3B, CH-1327-3A
01359402	64337-035		480	MR-1348-3, CH-1348-3B, CH-1348-3A
01359502	64337-036		600	MR-1357-3, CH-1357-3B, CH-1357-3A
01359602	64337-037	9500	208	MR-2720-3, CH-2720-3C, CH-2720-3B
01359702	64337-038		240	MR-2724-3, CH-2724-3C, CH-2724-3B
01359802	64337-039		277	MR-2727-3, CH-2727-3C, CH-2727-3B
01359902	64337-040		480	MR-2748-3, CH-2748-3C, CH-2748-3B
01360002	64337-041		600	MR-2757-3, CH-2757-3C, CH-2757-3B
FHK Series - Flat Panel Emitter Conversion Kits				
01360802	64337-049	4300	208	FHK-620-3A
01360902	64337-050		240	FHK-624-3A
01361002	64337-051		480	FHK-648-3A
01361102	64337-052	9500	208	FHK-1320-3A
01361202	64337-053		240	FHK-1324-3A
01361302	64337-054		480	FHK-1348-3A

Note: There are no element replacement kits for CH-2, MR-2, or FHK-2 model series heaters.