

# RPH Series Outdoor Rated Stainless Steel Electric Infrared Heater

72



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

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)

| 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.

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

| 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            |



| 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

73

| MFG<br>CATALOG<br>NUMBER | MFG<br>MODEL<br>NUMBER | WATTS | VOLTS    | LENGTH (IN.) |                        | ENVELOPE<br>TYPE | FITS<br>MODEL          |
|--------------------------|------------------------|-------|----------|--------------|------------------------|------------------|------------------------|
|                          |                        |       |          | Overall      | Heated                 |                  |                        |
| 04400502                 | 630-05129              | 500   | 120      | 8 11/16      | 5                      | CLEAR            | MM-13A                 |
| 04401602                 | 630-16209              | 1600  | 208      | 19 11/16     | 16                     |                  | 222, 223,<br>or MM-24A |
| 04401702                 | 630-16249              |       | 240      |              |                        |                  |                        |
| 04409902                 | 631-16249              |       | 240      |              |                        |                  |                        |
| 04401802                 | 630-16279              |       | 277      |              |                        |                  |                        |
| 04817302                 | 630-16489              | 2500  | 480      | 28 11/16     | 25                     |                  | 342, 343,<br>or MM-33A |
| 04817402                 | 630-25209              |       | 208      |              |                        |                  |                        |
| 04817502                 | 630-25249              |       | 240      |              |                        |                  |                        |
| 04817602                 | 630-25279              |       | 277      |              |                        |                  |                        |
| 04405402                 | 630-25489              |       | 480      |              |                        |                  |                        |
| 04403602                 | 631-25489              |       | 480      |              |                        |                  |                        |
| 04406802                 | 631-25609              | 600   | 41 11/16 | 38           | 462, 463,<br>or MM-46A |                  |                        |
| 04406702                 | 630-36489              | 3650  |          |              |                        |                  | 480                    |
| 04462302                 | 630-38579              | 600   |          |              |                        |                  |                        |
| 04441302                 | 631-38579              | 3800  | 600      | 19 11/16     | 16                     | RED              | 222/223<br>or RPH      |
| 04461502                 | 632-1620               | 1600  | 208      |              |                        |                  |                        |
| 04461602                 | 632-1624               | 240   |          |              |                        |                  |                        |
| 04462202                 | 632-2548               | 2500  | 480      |              |                        |                  | 28 11/16               |

- 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 |            |
| 04416602           | 671-5060         | 3000  | 208   | 50 1/16      | 45 3/16 | OCH-57     |
| 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 |            |
| 04403502           | 671-3454         | 450   | 120   | 12 15/16     | 8 7/16  | FFH-912B   |
| 04400802           | 671-3492*        | 550   | 120   | 19 1/2       | 16      | FFH-512A   |
| 04462402           | 671-5056         | 1000  | 120   | 18 5/16      | 14 7/16 | CH-2212-1C |
| 04462502           | 671-5057         | 1425  | 240   | 27 3/16      | 23 7/16 | 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-2724-3C, CH-2724-3B |
| 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. |                  |       |       |                                   |

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