

## The largest selection of overhead electric infrared heaters in the industry today!

### Flat Panel Emitter Heaters

- High-density, medium wavelength radiant heat emitter for indoor heating applications
- Shipped fully assembled with wire guard and standard 60° symmetric heat pattern
- Flat panel emitter operates at 78.5% radiant efficiency & generates no lumen glare
- Designed for indoor heating applications or protected outdoor areas
- Life expectancy of 25,000 hours



*FSS Series*



**WARNING:** This product can expose you to chemicals including nickel which is known to the State of California to cause cancer, and chromium, which is known to the State of California to cause birth defects and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



*FSA Series*

- Gold anodized aluminum housing
- Designed for rugged industrial applications
- Chain or suspension mounting options

- Extruded aluminum housing
- Designed for commercial applications
- Chain, suspension, wall, or recessed mounting options

### Quartz Lamp Mul-T-Mount Heaters

- Short wavelength radiant heat emitter for indoor & total exposed outdoor heating applications
- Gold anodized interior reflector offered in symmetrical or asymmetrical heat pattern options
- Clear quartz lamp operates at 96% radiant efficiency & generates 8-lumens per watt
- Designed for indoor and totally exposed outdoor heating application areas
- Element life expectancy of 5,000 hours



*TH/THSS Series & TH/THSS-AG Series*



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*THA Series*

- Housing finish: bankers bronze or stainless steel
- Designed for rugged industrial applications
- Chain, suspension, wall, or recessed mounting options
- Shipped with clear quartz lamp
- AG suffix models include "glare" reducing sleeves

- Extruded aluminum housing
- Nickel gray finish
- Designed for commercial applications
- Chain or suspension mounting options
- Shipped with clear quartz lamps and amber gray "glare" reducing sleeves

## Types of Electric Infrared Application & Sizing Details

- **Indoor Spot Heating**

Average: 25-60 watts per square foot

Calculation: Sq.ft. x desired temperature rise = total watts required

- **Total Area / Building Heating**

Average: 8-20 watts per square foot

Calculation: Sq.ft. x .5 x desired temperature rise = total watts required

- **Outdoor Spot Heating**

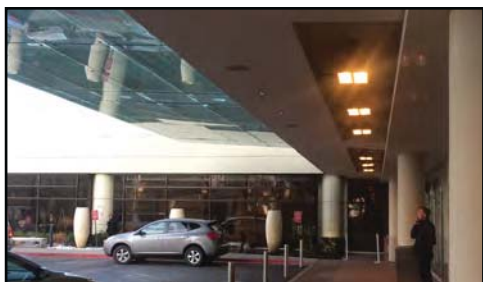
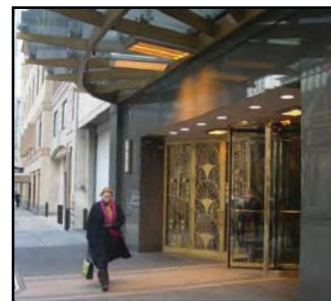
Average: 2 watts per square foot per desired temperature rise

Calculation: Sq.ft. x 2 x desired temperature rise = total watts required

- **Outdoor Snow & Ice Control Heating System**

Average: 85-110 watts per square foot

Calculation: Sq.ft. x required watts / sq.ft. = total watts required



### Quartz Lamp Glare Reduction Options



#### 12mm Clear Quartz Lamp

- Approximately 96% radiant efficient
- 8 lumens per watt on a 3200 watt fixture, equals 25,600 lumens
- Can be mounted 10' and above indoors, 8' to 10' outdoors
- Emits a bright light, but extremely energy efficient site of installation



#### 12mm Red Vycor Sleeve

- Slips over 12mm quartz lamp to reduce glare
- Filters approximately 90% of visible light
- Allows 90% of the energy to pass through to installed area
- Reduces 90% of the clear quartz lumens



#### 8mm Clear Quartz Lamp with Amber Gray Sleeve

- When used together, reduces 94% of lumens of clear quartz lamp
- Allows 90% of energy to pass through sleeve to installed area
- Eliminates red glow found with using red vycor sleeve
- Shipped standard on all AG suffix & THA model series

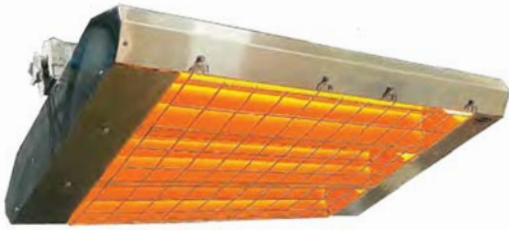
# TH & THSS Series Mul-T-Mount Electric Infrared Heater

Overhead Infrared Heaters for Snow and Ice Control,  
Outdoor Spot Heating, and All Indoor Heating Applications



## Product Description

**AVAILABLE IN 2 OR 3 LAMP BANKERS  
BRONZE OR STAINLESS STEEL FINISH**



- Listed for suspended, totally exposed (outdoor), high-bay (indoor) comfort heating and exterior snow & ice control applications
- Listed for recessed applications
- 20 gauge powder coated steel or stainless steel housings
- Gold anodized Aluminum reflectors & end caps
- 50% higher wattage densities for 3-element units
- 2-Lamp wiring, single phase
- 3-Lamp wiring, three or single phase
- Stainless steel models have non-corrosive housing, hardware and brackets; no ferrous metals used in the unit. Durable in harsh atmospheres & outdoor environments
- High temperature lead wires
- Clear 12mm diameter Quartz Lamp(s) Included
- Elements provide a bright light, generating 8-lumens per watt
- Made in U.S.A.

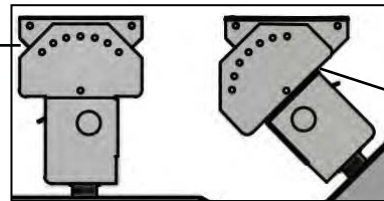
**WARNING:** This product can expose you to chemicals including nickel which is known to the State of California to cause cancer, and chromium, which is known to the State of California to cause birth defects and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



### Features:

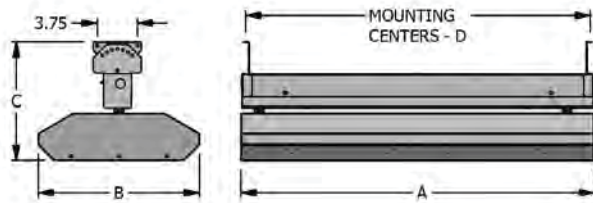
In-built surface mounting brackets allows for fixture adjustment up to 45° horizontal tilt

In-built surface mounting brackets attached to the top wiring channel



0 to 45° tilt @ 15° increments

## Product Dimensions



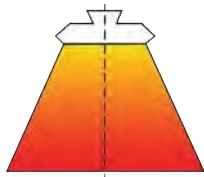
MUL-T-MOUNT SERIES	DIMENSIONS (IN.)			
	"A" LENGTH	"B" WIDTH	"C" HEIGHT	"D" MTG.CTR.
222	24"	15"	11"	23 ½"
223	24"	21 ½"	11"	23 ½"
342	33"	15"	11"	32 ½"
343	33"	21 ½"	11"	32 ½"
462	46"	15"	11"	45 ½"
463	46"	21 ½"	11"	45 ½"

## Mounting Clearances & Recommended Mounting Height

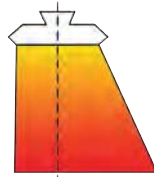
Mounting Clearances		Recommended Mounting Height	
2 & 3 Lamp Models	3" from ceiling	30° Symmetric & A30° Asymmetric Reflector - Indoor	14' - 30'
	24" from vertical surface	60° Symmetric & A60° Asymmetric Reflector - Indoor	12' - 18'
2 Lamp Models	72" from face of heater to combustible surface	90° Symmetric Reflector - Indoor	8' - 12'
3 Lamp Models	96" from face of heater to combustible surface	30° Symmetric & A30° Asymmetric Reflector - Outdoor	8' - 10'

# TH & THSS Series Mul-T-Mount Electric Infrared Heater

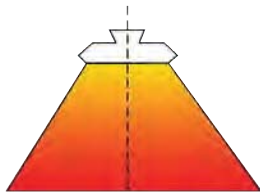
## Reflector Patterns



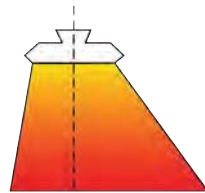
30° Symmetric



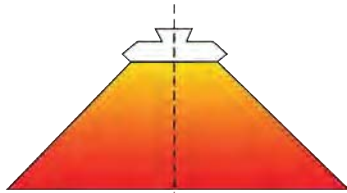
30° Asymmetric



60° Symmetric



60° Asymmetric



90° Symmetric

## Product Specifications

### Series:

222, 342, 462 (Painted Version) 2-lamp -- TH Series  
 222, 342, 462 (Stainless Steel Version) 2-lamp -- THSS Series  
 223, 343, 463 (Stainless Steel Version) 3-lamp -- THSS Series

### Housing:

20 gauge Galvanized Steel with baked on bankers bronze powder coated finish. 20 gauge Stainless Steel for durability and corrosion-resistance. Both housings are ETL Listed for either indoor and totally exposed outdoor applications.

### Reflectors and End Caps:

.040 Gold anodized Aluminum reflectors and end caps for superior reflectivity. Five choices of reflector patterns including 30 degree narrow (symmetric & asymmetric), 60 degree medium (symmetric & asymmetric), and 90 degree wide (symmetric). THSS models have stainless steel endcaps.

### Elements:

Clear quartz lamps. Coiled tungsten filament located within a sealed quartz envelope, halogen filled, with porcelain end caps and 6" wire pigtail leads. Elements are 12mm in diameter and deliver a 96% radiant efficiency with high moisture and thermal shock resistance. Instantaneous heat-up and cool-down performance. Available wattages from 1600 to 3650 Watts per element. Available voltages from 208 to 600 Volts.

### Controls:

Mul-T-Mount heaters are not manufactured with any control device on the unit. All controls are accessories and should be specified as such. Please consult the technical sales department of factory for help in determining applicable controls. Please follow installation instructions that accompany each heater.

### Accessories:

Recessed mounting frames (painted or stainless steel), adjustable mounting brackets (stainless steel only), vertical mounting brackets (stainless steel only), wire guards, thermostats, snow detectors, SCR controllers, and power contactor panels (ICP Series).

## Sizing Chart

Reflective Pattern (°)	Heater Output (kW)	# of Qtz. Lamps	Mounting Heights (FT.)							Watts Delivered per Square Foot							
			8	10	12	14	16	18	20	Mounting Heights (FT.)							
			Heat Pattern Coverage at Floor Level							8	10	12	14	16	18	20	
			L x W	L x W	L x W	L x W	L x W	L x W	L x W	L x W							
30°	3.2	2 - Quartz Lamp Heaters	5.5 x 4	6.5 x 5.5	7.5 x 6.5	8.5 x 7.5	9.5 x 8.5	10.5 x 9.5	11.5 x 10.5	145.5	89.5	65.6	50.2	39.6	32.1	26.5	
60°	3.2		10.5 x 9.5	13 x 12	15 x 14	17 x 16	N/R	N/R	N/R	32.1	20.5	15.2	11.8	-	-	-	
90°	3.2		17 x 16	21 x 20	N/R	N/R	N/R	N/R	N/R	11.8	7.6	-	-	-	-	-	
30°	5.0		6 x 4	7.5 x 5.5	8.5 x 6.5	9.5 x 7.5	10.5 x 8.5	11.5 x 9.5	12.5 x 10.5	208.3	121.2	90.5	70.2	56.0	45.8	38.1	
60°	5.0		11.5 x 9.5	14 x 12	16 x 14	18 x 16	20.5 x 18.5	23 x 21	N/R	45.8	29.8	22.3	17.4	13.2	10.4	-	
90°	5.0		18 x 16	22 x 20	26 x 24	N/R	N/R	N/R	N/R	17.4	11.4	8.0	-	-	-	-	
30°	7.3		N/R	8.5 x 5.5	9.5 x 6.5	10.5 x 7.5	11.5 x 8.5	12.5 x 9.5	13.5 x 10.5	-	156.1	118.2	92.7	74.7	61.5	51.5	
60°	7.3		12 x 10.5	15 x 12	17 x 14	19 x 16	21.5 x 18.5	24 x 21	N/R	57.9	40.6	30.7	24.0	18.4	14.5	-	
90°	7.3		19 x 16	23 x 20	27 x 24	N/R	N/R	N/R	N/R	24.0	15.9	11.3	-	-	-	-	
30°	4.8	3 - Quartz Lamp Heaters	5.5 x 5	6.5 x 6.5	7.5 x 7.5	8.5 x 8.5	9.5 x 9.5	10.5 x 10.5	11.5 x 11.5	174.5	113.6	85.3	66.4	53.2	43.5	36.3	
60°	4.8		10.5 x 10.5	13 x 13	15 x 15	17 x 17	21 x 21	N/R	N/R	43.5	28.4	21.3	16.6	10.9	-	-	
90°	4.8		17 x 17	21 x 21	N/R	N/R	N/R	N/R	N/R	16.6	10.9	-	-	-	-	-	
30°	7.5		N/R	7.5 x 6.5	8.5 x 7.5	9.5 x 8.5	10.5 x 9.5	11.5 x 10.5	12.5 x 11.5	-	153.8	117.6	92.9	75.2	62.1	52.2	
60°	7.5		11.5 x 10.5	14 x 13	16 x 15	18 x 17	20.5 x 19.5	23 x 22	N/R	62.1	41.2	31.3	24.5	18.8	14.8	-	
90°	7.5		18 x 17	22 x 21	26 x 25	N/R	N/R	N/R	N/R	24.5	16.2	11.5	-	-	-	-	
30°	10.95		N/R	8.5 x 6.5	9.5 x 7.5	10.5 x 8.5	11.5 x 9.5	12.5 x 10.5	13.5 x 11.5	-	198.2	153.7	122.7	100.2	83.4	70.5	
60°	10.95		12 x 11	15 x 13	17 x 15	19 x 17	21.5 x 19.5	24 x 22	N/R	83.0	56.2	42.9	33.9	26.1	20.7	-	
90°	10.95		19 x 17	23 x 21	27 x 25	N/R	N/R	N/R	N/R	33.9	22.7	16.2	-	-	-	-	

NOTE: This chart provides the same heat pattern coverage for all Mul-T-Mount Heater Series regardless of housing materials, added sleeve, or element diameter.

# TH & THSS Series Mul-T-Mount Electric Infrared Heater



## 2-Lamp Mul-T-Mount Series Bankers Bronze Or Stainless Steel With (2) Clear 12mm Quartz Lamps Included

BRONZE HOUSING		STAINLESS STEEL HOUSING		KW	BTUs	VOLTS	REFLECTOR PATTERN	12mm DIAMETER REPLACEMENT LAMP	WT. (LBS)	LIST		
MFG CATALOG NUMBER	MFG MODEL NUMBER	MFG CATALOG NUMBER	MFG MODEL NUMBER							Bankers Bronze	Stainless Steel	
04441602	222-30-TH-208V	04444002	222-30-THSS-208V	3.2	10,922	208	30° Symmetrical	63016209	20	862	1042	
04441702	222-30-TH-240V	04444102	222-30-THSS-240V			240		63016249				
04441802	222-30-TH-277V	04444202	222-30-THSS-277V			277		63016279				
04813802	222-30-TH-480V	04814302	222-30-THSS-480V			480		63016489				
04441902	222-A30-TH-208V	04444302	222-A30-THSS-208V			208	30° Asymmetrical	63016209				
04442002	222-A30-TH-240V	04444402	222-A30-THSS-240V			240		63016249				
04442102	222-A30-TH-277V	04444502	222-A30-THSS-277V			277		63016279				
04814102	222-A30-TH-480V	04814602	222-A30-THSS-480V			480		63016489				
04442202	222-60-TH-208V	04444602	222-60-THSS-208V			208	60° Symmetrical	63016209				
04442302	222-60-TH-240V	04444702	222-60-THSS-240V			240		63016249				
04442402	222-60-TH-277V	04444802	222-60-THSS-277V			277		63016279				
04813902	222-60-TH-480V	04814402	222-60-THSS-480V			480		63016489				
04442502	222-A60-TH-208V	04444902	222-A60-THSS-208V			208	60° Asymmetrical	63016209				
04442602	222-A60-TH-240V	04445002	222-A60-THSS-240V			240		63016249				
04442702	222-A60-TH-277V	04445102	222-A60-THSS-277V			277		63016279				
04814202	222-A60-TH-480V	04814702	222-A60-THSS-480V			480		63016489				
04432902	222-90-TH-208V	04445202	222-90-THSS-208V	208	90° Symmetrical	63016209						
04442802	222-90-TH-240V	04445302	222-90-THSS-240V	240		63016249						
04442902	222-90-TH-277V	04445402	222-90-THSS-277V	277		63016279						
04814002	222-90-TH-480V	04814502	222-90-THSS-480V	480		63016489						
04810802	342-30-TH-208V	04809302	342-30-THSS-208V	5.0	17,065	208	30° Symmetrical	63025209	25	1137	1456	
04810902	342-30-TH-240V	04809402	342-30-THSS-240V			240		63025249				
88026143	342-30-TH-480V	88026394	342-30-THSS-480V			480		63025489				
04811702	342-A30-TH-208V	04810202	342-A30-THSS-208V			208		30° Asymmetrical				63025209
04811802	342-A30-TH-240V	04810302	342-A30-THSS-240V			240	63025249					
04443102	342-A30-TH-480V	04445602	342-A30-THSS-480V			480	63025489					
04811102	342-60-TH-208V	---	---			208	63025209					
04811202	342-60-TH-240V	04809702	342-60-THSS-240V			240	60° Symmetrical	63025249				
88029143	342-60-TH-480V	88029394	342-60-THSS-480V			480		63025489				
04812002	342-A60-TH-208V	04810502	342-A60-THSS-208V			208		60° Asymmetrical				63025209
04812102	342-A60-TH-240V	04810602	342-A60-THSS-240V			240						63025249
04443302	342-A60-TH-480V	04445802	342-A60-THSS-480V			480	63025489					
04811402	342-90-TH-208V	04809902	342-90-THSS-208V			208	90° Symmetrical					63025209
04811502	342-90-TH-240V	04810002	342-90-THSS-240V			240		63025249				
88032144	342-90-TH-480V	88032394	342-90-THSS-480V			480		63025489				
88027143	462-30-TH-480V	88027393	462-30-THSS-480V			7.3		24,915				480
04443602	462-A30-TH-480V	04446102	462-A30-THSS-480V	480	30° Asymmetrical		63036489					
88030143	462-60-TH-480V	88030393	462-60-THSS-480V	480	60° Symmetrical		63036489					
04443802	462-A60-TH-480V	04446302	462-A60-THSS-480V	480	60° Asymmetrical		63036489					
88033144	462-90-TH-480V	88033394	462-90-THSS-480V	480	90° Symmetrical		63036489					

**NOTE: Consult the factory, the product instruction manual, or a licensed electrician for 3-phase wiring of all 2-element heaters.**

# TH & THSS Series Mul-T-Mount Electric Infrared Heater



3-Lamp Mul-T-Mount Series - Bankers Bronze Or Stainless Steel Housing  
With (3) Clear 12mm Quartz Lamps Included



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- 600-Volt Models also available, contact factory for more information
- Asymmetrical pattern units are also available for 30° & 60°
- Made in U.S.A.

BRONZE HOUSING		STAINLESS STEEL HOUSING		KW	BTUs	VOLTS	REFLECTOR PATTERN	12mm DIAMETER REPLACEMENT LAMP	WT. (LBS)	LIST						
MFG CATALOG NUMBER	MFG MODEL NUMBER	MFG CATALOG NUMBER	MFG MODEL NUMBER							Bankers Bronze	Stainless Steel					
04874802	223-30-TH-208V	04436702	223-30-THSS-208V	4.8	16382	208	30° Symmetrical	63016209	25	1425	1604					
04874902	223-30-TH-240V	04436802	223-30-THSS-240V					240				63016249				
04875002	223-30-TH-277V	04436902	223-30-THSS-277V					277				63016279				
04875102	223-30-TH-480V	04815802	223-30-THSS-480V			480		63016489								
04875202	223-60-TH-208V	04432802	223-60-THSS-208V			208		63016209								
04875302	223-60-TH-240V	04437302	223-60-THSS-240V			240		63016249								
04875402	223-60-TH-277V	04437402	223-60-THSS-277V			277	63016279									
04875502	223-60-TH-480V	04815902	223-60-THSS-480V			480	63016489									
04875602	223-90-TH-208V	04437802	223-90-THSS-208V			208	63016209									
04875702	223-90-TH-240V	04437902	223-90-THSS-240V			240	63016249									
04875802	223-90-TH-277V	04438002	223-90-THSS-277V			277	63016279									
04875902	223-90-TH-480V	04816002	223-90-THSS-480V			480	63016489									
04876002	343-30-TH-208V	04812302	343-30-THSS-208V	7.5	25298	208	30° Symmetrical	63025209	33	1722	2045					
04876102	343-30-TH-240V	04812402	343-30-THSS-240V					240				63025249				
04876202	343-30-TH-480V	88114394	343-30-THSS-480V					480				63025489				
04876302	343-60-TH-208V	04812602	343-60-THSS-208V			208		63025209								
04876402	343-60-TH-240V	04812702	343-60-THSS-240V			240		63025249								
04876502	343-60-TH-480V	088116394	343-60-THSS-480V			480		63025489								
04876602	343-90-TH-208V	04812902	343-90-THSS-208V			208	63025209									
04876702	343-90-TH-240V	04813002	343-90-THSS-240V			240	63025249									
04876802	343-90-TH-480V	88118394	343-90-THSS-480V			480	63025489									
04876902	463-30-TH-480V	88105394	463-30-THSS-480V			10.95	37372	480				30° Sym.	41	2069	2395	
04877002	463-60-TH-480V	88107394	463-60-THSS-480V									60° Sym.				63036489
04877102	463-90-TH-480V	88109394	463-90-THSS-480V									90° Sym.				63036489

## TH & THSS Series Product Accessories

MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	FOR USE WITH	WT.(LBS)	LIST	
08811239	VMB-41-SS	Wall Mounting Brackets (2)	All Mul-T-Mount Models	12	292	
08511500	CHWG-222	Stainless Steel Wire Guards	222 Series	2	79	
08511400	CHWG-342		342 Series		105	
08516200	CHWG-462		462 Series		142	
08543600	CHWG-223		223 Series		97	
08543500	CHWG-343		343 Series		126	
08543400	CHWG-463		463 Series		147	
			Recessed Mounting Frames (UL)			
		Ceiling Cutout (in.)	Frame Size (in.)			
04419902	RMF-222-SS-A	27 x 17 7/8	29 1/8 x 20	222 Series Stainless	6	323
04494402	RMF-222-A	27 x 17 7/8	29 1/8 x 20	222 Series Painted	6	235
04420702	RMF-342-SS-A	36 x 17 7/8	38 1/8 x 20	342 Series Stainless	9	397
04418702	RMF-342-A	36 x 17 7/8	38 1/8 x 20	342 Series Painted		237
04421002	RMF-462-SS-A	49 x 17 7/8	51 1/8 x 20	462 Series Stainless	11	485
04494502	RMF-462-A	49 x 17 7/8	51 1/8 x 20	462 Series Painted		300
08811002	RMF-223-SS	32 x 29 3/8	34 1/8 x 31 1/2	223 Series Stainless	15	487
08811302	RMF-343-SS	41 x 29 3/8	43 1/8 x 31 1/2	343 Series Stainless	18	572
08811102	RMF-463-SS	54 x 29 3/8	56 1/8 x 31 1/2	463 Series Stainless	20	697
04877202	RMF-223	32 x 29 3/8	34 1/8 x 31 1/2	223 Series Painted	15	391
04877302	RMF-343	41 x 29 3/8	43 1/8 x 31 1/2	343 Series Painted	18	412
04877402	RMF-463	54 x 29 3/8	56 1/8 x 31 1/2	463 Series Painted	20	511
04407802	31939009	Red Vycor Sleeves	All 1600W Qtz. Lamp	2	123	
04407302	31940009	Reduces 12mm Clear Quartz Lamp Brightness by 90%	All 2500W Qtz. Lamp		162	
04407402	31941009		All 3650W Qtz. Lamp		199	
04461502	632-1620	Red Quartz Lamps; 1.6kw, 208v	222, 223 & RPH Series	2	208	
04461602	632-1624	Red Quartz Lamps; 1.6kw, 240v			208	
04462202	632-2548	Red Quartz Lamps; 2.5kw, 480v			342 & 343 Series	244

# TH & THSS Series Mul-T-Mount Electric Infrared Heater



2-Lamp Mul-T-Mount Series - Bankers Bronze Or Stainless Steel  
With (2) Clear 8mm Quartz Lamps and Amber Gray Sleeves Included

BRONZE HOUSING		STAINLESS STEEL HOUSING		KW	BTUs	VOLTS	REFLECTOR PATTERN	8mm DIAMETER REPL. LAMP	WT. (LBS)	LIST						
MFG CATALOG NUMBER	MFG MODEL NUMBER	MFG CATALOG NUMBER	MFG MODEL NUMBER							Bankers Bronze	Stainless Steel					
04900002	222-30-TH-208V-AG	04904002	222-30-THSS-208V-AG	3.2	10,922	208	30° Symmetrical	04912802	20	950	1151					
04900102	222-30-TH-240V-AG	04904102	222-30-THSS-240V-AG			240		04912902								
04900202	222-30-TH-277V-AG	04904202	222-30-THSS-277V-AG			277		04913002								
04900302	222-30-TH-480V-AG	04904302	222-30-THSS-480V-AG			480		04913102								
04900402	222-A30-TH-208V-AG	04904402	222-A30-THSS-208V-AG			208	30° Asymmetrical	04912802								
04900502	222-A30-TH-240V-AG	04904502	222-A30-THSS-240V-AG			240		04912902								
04900602	222-A30-TH-277V-AG	04904602	222-A30-THSS-277V-AG			277		04913002								
04900702	222-A30-TH-480V-AG	04904702	222-A30-THSS-480V-AG			480		04913102								
04900802	222-60-TH-208V-AG	04904802	222-60-THSS-208V-AG			208	60° Symmetrical	04912802								
04900902	222-60-TH-240V-AG	04904902	222-60-THSS-240V-AG			240		04912902								
04901002	222-60-TH-277V-AG	04905002	222-60-THSS-277V-AG			277		04913002								
04901102	222-60-TH-480V-AG	04905102	222-60-THSS-480V-AG			480		04913102								
04901202	222-A60-TH-208V-AG	04905202	222-A60-THSS-208V-AG			208	60° Asymmetrical	04912802								
04901302	222-A60-TH-240V-AG	04905302	222-A60-THSS-240V-AG			240		04912902								
04901402	222-A60-TH-277V-AG	04905402	222-A60-THSS-277V-AG			277		04913002								
04901502	222-A60-TH-480V-AG	04905502	222-A60-THSS-480V-AG			480		04913102								
04901602	222-90-TH-208V-AG	04905602	222-90-THSS-208V-AG			208	90° Symmetrical	04912802								
04901702	222-90-TH-240V-AG	04905702	222-90-THSS-240V-AG			240		04912902								
04901802	222-90-TH-277V-AG	04905802	222-90-THSS-277V-AG			277		04913002								
04901902	222-90-TH-480V-AG	04905902	222-90-THSS-480V-AG			480		04913102								
04902002	342-30-TH-208V-AG	04906002	342-30-THSS-208V-AG	5.0	17,065	208	30° Symmetrical	04913202	25	1251	1603					
04902102	342-30-TH-240V-AG	04906102	342-30-THSS-240V-AG			240		04913302								
04902202	342-30-TH-480V-AG	04906202	342-30-THSS-480V-AG			480		04913502								
04902302	342-A30-TH-208V-AG	04906302	342-A30-THSS-208V-AG			208	30° Asymmetrical	04913202								
04902402	342-A30-TH-240V-AG	04906402	342-A30-THSS-240V-AG			240		04913302								
04902502	342-A30-TH-480V-AG	04906502	342-A30-THSS-480V-AG			480		04913502								
04902602	342-60-TH-208V-AG	04906602	342-60-THSS-208V-AG			208	60° Symmetrical	04913202								
04902702	342-60-TH-240V-AG	04906702	342-60-THSS-240V-AG			240		04913302								
04902802	342-60-TH-480V-AG	04906802	342-60-THSS-480V-AG			480		04913502								
04902902	342-A60-TH-208V-AG	04906902	342-A60-THSS-208V-AG			208	60° Asymmetrical	04913202								
04903002	342-A60-TH-240V-AG	04907002	342-A60-THSS-240V-AG			240		04913302								
04903102	342-A60-TH-480V-AG	04907102	342-A60-THSS-480V-AG			480		04913502								
04903202	342-90-TH-208V-AG	04907202	342-90-THSS-208V-AG			208	90° Symmetrical	04913202								
04903302	342-90-TH-240V-AG	04907302	342-90-THSS-240V-AG			240		04913302								
04903402	342-90-TH-480V-AG	04907402	342-90-THSS-480V-AG			480		04913502								
04903502	462-30-TH-480V-AG	04907502	462-30-THSS-480V-AG			7.3	24,915	480				30° Sym.	04913602	32	1572	1925
04903602	462-A30-TH-480V-AG	04907602	462-A30-THSS-480V-AG									30° Asym.	04913602			
04903702	462-60-TH-480V-AG	04907702	462-60-THSS-480V-AG									60° Sym.	04913602			
04903802	462-A60-TH-480V-AG	04907802	462-A60-THSS-480V-AG									60° Asym.	04913602			
04903902	462-90-TH-480V-AG	04907902	462-90-THSS-480V-AG									90° Sym.	04913602			

NOTE: Consult the factory, the product instruction manual, or a licensed electrician for 3-phase wiring of all 2-element heaters.

# TH & THSS Series Mul-T-Mount Electric Infrared Heater



3-Lamp Mul-T-Mount Series - Bankers Bronze Or Stainless Steel Housing  
With (3) Clear 8mm Quartz Lamps and Amber Gray Sleeves Included



**WARNING:** This product can expose you to chemicals including nickel which is known to the State of California to cause cancer, and chromium, which is known to the State of California to cause birth defects and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

- Heaters shipped with glare reducing sleeves & elements
- Asymmetrical pattern units are also available for 30° & 60°
- Made in U.S.A.

BRONZE HOUSING		STAINLESS STEEL HOUSING		KW	BTUs	VOLTS	REFLECTOR PATTERN	8mm DIAMETER REPL. LAMP	WT. (LBS)	LIST	
MFG CATALOG NUMBER	MFG MODEL NUMBER	MFG CATALOG NUMBER	MFG MODEL NUMBER							Bankers Bronze	Stainless Steel
04908002	223-30-TH-208V-AG	04910402	223-30-THSS-208V-AG	4.8	16,382	208	30° Symmetrical	04912802	25	1567	1764
04908102	223-30-TH-240V-AG	04910502	223-30-THSS-240V-AG					04912902			
04908202	223-30-TH-277V-AG	04910602	223-30-THSS-277V-AG					04913002			
04908302	223-30-TH-480V-AG	04910702	223-30-THSS-480V-AG			04913102					
04908402	223-60-TH-208V-AG	04910802	223-60-THSS-208V-AG			208	60° Symmetrical	04912802			
04908502	223-60-TH-240V-AG	04910902	223-60-THSS-240V-AG			240		04912902			
04908602	223-60-TH-277V-AG	04911002	223-60-THSS-277V-AG			277		04913002			
04908702	223-60-TH-480V-AG	04911102	223-60-THSS-480V-AG			480	04913102				
04908802	223-90-TH-208V-AG	04911202	223-90-THSS-208V-AG			208	90° Symmetrical	04912802			
04908902	223-90-TH-240V-AG	04911302	223-90-THSS-240V-AG			240		04912902			
04909002	223-90-TH-277V-AG	04911402	223-90-THSS-277V-AG			277		04913002			
04909102	223-90-TH-480V-AG	04911502	223-90-THSS-480V-AG			480	04913102				
04909202	343-30-TH-208V-AG	04911602	343-30-THSS-208V-AG	7.5	25,298	208	30° Symmetrical	04913202	33	1758	2250
04909302	343-30-TH-240V-AG	04911702	343-30-THSS-240V-AG					04913302			
04909402	343-30-TH-480V-AG	04911802	343-30-THSS-480V-AG					04913502			
04909502	343-60-TH-208V-AG	04911902	343-60-THSS-208V-AG			208	60° Symmetrical	04913202			
04909602	343-60-TH-240V-AG	04912002	343-60-THSS-240V-AG			240		04913302			
04909702	343-60-TH-480V-AG	04912102	343-60-THSS-480V-AG			480		04913502			
04909802	343-90-TH-208V-AG	04912202	343-90-THSS-208V-AG			208	90° Symmetrical	04913202			
04909902	343-90-TH-240V-AG	04912302	343-90-THSS-240V-AG			240		04913302			
04910002	343-90-TH-480V-AG	04912402	343-90-THSS-480V-AG			480		04913502			
04910102	463-30-TH-480V-AG	04912502	463-30-THSS-480V-AG	10.95	37,372	480	30° Sym.	41	2275	2636	
04910202	463-60-TH-480V-AG	04912602	463-60-THSS-480V-AG				60° Sym.				
04910302	463-90-TH-480V-AG	04912702	463-90-THSS-480V-AG				90° Sym.				

## TH & THSS Series Replacement Lamps & Sleeves

MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	WT.(LBS)	LIST
<b>8MM REPLACEMENT LAMPS</b>				
04912802	59129101	8mm 1600W, 208V LAMP	3	172
04912902	59129102	8mm 1600W, 240V LAMP		172
04913002	59129103	8mm 1600W, 277V LAMP		172
04913102	59129104	8mm 1600W, 480V LAMP	5	208
04913202	59129105	8mm 2500W, 208V LAMP		244
04913302	59129106	8mm 2500W, 240V LAMP		244
04913402	59129107	8mm 2500W, 277V LAMP		272
04913502	59129108	8mm 2500W, 480V LAMP		234
04913602	59129009	8mm 3650W, 480V LAMP		320
<b>AMBER GRAY SLEEVE ONLY</b>				
04891102	59111102	AMBER GRAY SLEEVE FOR 1600 WATT MODELS	2	123
04891202	59111103	AMBER GRAY SLEEVE FOR 2500 WATT MODELS		162
04891302	59111106	AMBER GRAY SLEEVE FOR 3650 WATT MODELS		199
<b>OPTIONAL 8MM AMBER GRAY SLEEVE / LAMP KIT* (kits can be used as replacements for any existing Mul-T-Mount fixture)</b>				
04899202	AGS1620	1600 W 208 V 8mm AMBER GRAY SLEEVE / LAMP KIT	5	284
04899302	AGS1624	1600 W 240 V 8mm AMBER GRAY SLEEVE / LAMP KIT		284
04899402	AGS1627	1600 W 277 V 8mm AMBER GRAY SLEEVE / LAMP KIT		284
04899502	AGS1648	1600 W 480 V 8mm AMBER GRAY SLEEVE / LAMP KIT	8	335
04899602	AGS2520	2500 W 208 V 8mm AMBER GRAY SLEEVE / LAMP KIT		424
04899702	AGS2524	2500 W 240 V 8mm AMBER GRAY SLEEVE / LAMP KIT		424
04899802	AGS2548	2500 W 480 V 8mm AMBER GRAY SLEEVE / LAMP KIT		424
04899902	AGS3648	3650 W 480 V 8mm AMBER GRAY SLEEVE / LAMP KIT		515

\*2 Lamp fixtures require 2 kits; 3 Lamp fixtures require 3 kits  
600 Volt models not available



# THA Series Architectural Mul-T-Mount Electric Infrared Heater

3-Lamp Mul-T-Mount Series - Nickel Gray Housing With  
(3) Clear 8mm Quartz Lamps and Amber Gray Sleeves Included



**Heavy Duty Extruded Aluminum Housing**

Glare Reduction Element & Sleeve Combination Heater Series



**⚠ WARNING:** This product can expose you to chemicals including nickel which is known to the State of California to cause cancer, and chromium, which is known to the State of California to cause birth defects and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

- ETL C/US listed for suspended, totally exposed outdoor and indoor spot comfort heating applications, including exterior snow/ice control applications
- Clear quartz lamp heating elements, offered in both 2-lamp and 3-lamp heaters that operate on 208, 240, or 480 volt
- Gold anodized one-piece reflector offered in 30°, 60°, or 90° symmetrical patterns for various distribution of infrared heat
- 6063 extruded aluminum housing, with a painted powder coated nickel gray finish
- Housing is extremely durable and attractively designed for commercial applications
- All 3-lamp heaters wire for either single or three-phase wiring.
- 2-lamp heaters wire for single-phase operation
- Includes surface mounting brackets & glare reducing sleeves to eliminate 94% of the quartz lamp lumen output
- Made in the USA

NICKEL GRAY HOUSING		KW	BTUs	VOLTS	REFLECTOR PATTERN	8mm DIAMETER REPLACEMENT LAMP	WT. (LBS)	LIST				
MFG CATALOG NUMBER	MFG MODEL NUMBER											
04896202	223-30-THA-208V	4.8	16382	208	30° Symmetrical	04912802	25	1812				
04896302	223-30-THA-240V			240		04912902						
04896402	223-30-THA-277V			277		04913002						
04896502	223-30-THA-480V			480		04913102						
04896602	223-60-THA-208V			208	60° Symmetrical	04912802						
04896702	223-60-THA-240V			240		04912902						
04896802	223-60-THA-277V			277		04913002						
04896902	223-60-THA-480V			480		04913102						
04897002	223-90-THA-208V			208	90° Symmetrical	04912802						
04897102	223-90-THA-240V			240		04912902						
04897202	223-90-THA-277V			277		04913002						
04897302	223-90-THA-480V			480		04913102						
04897402	343-30-THA-208V	7.5	25298	208	30° Symmetrical	04913202	33	2125				
04897502	343-30-THA-240V			240		04913302						
04897602	343-30-THA-480V			480		04913502						
04897702	343-60-THA-208V			208	60° Symmetrical	04913202						
04897802	343-60-THA-240V			240		04913302						
04897902	343-60-THA-480V			480		04913502						
04898002	343-90-THA-208V			208	90° Symmetrical	04913202						
04898102	343-90-THA-240V			240		04913302						
04898202	343-90-THA-480V			480		04913502						
04898302	463-30-THA-480V			10.95	37372	480			30° Symmetrical	04913602	41	2463
04898402	463-60-THA-480V					60° Symmetrical			04913602			
04898502	463-90-THA-480V					90° Symmetrical			04913602			

**NOTE:**

- All THA models have the same housing dimensions and require the same mounting clearances as the TH/THSS models; see page 76
- See page 77 for sizing chart information
- Asymmetrical pattern units are also available for 30° & 60°, contact factory for more information

# THA Series Architectural Mul-T-Mount Electric Infrared Heater



2-Lamp Mul-T-Mount Series Nickel Gray With  
(2) Clear 8mm Quartz Lamps and Amber Gray Sleeves Included

NICKEL GRAY HOUSING		KW	BTUs	VOLTS	REFLECTOR PATTERN	8mm DIAMETER REPLACEMENT LAMP	WT. (LBS)	LIST				
MFG CATALOG NUMBER	MFG MODEL NUMBER											
04892202	222-30-THA-208V	3.2	10,922	208	30° Symmetrical	04912802	20	1112				
04892302	222-30-THA-240V					04912902						
04892402	222-30-THA-277V					04913002						
04892502	222-30-THA-480V					04913102						
04892602	222-A30-THA-208V			240	30° Asymmetrical	04912802			04913102			
04892702	222-A30-THA-240V					04912902						
04892802	222-A30-THA-277V					04913002						
04892902	222-A30-THA-480V					04913102						
04893002	222-60-THA-208V			240	60° Symmetrical	04912802			04913102			
04893102	222-60-THA-240V					04912902						
04893202	222-60-THA-277V					04913002						
04893302	222-60-THA-480V					04913102						
04893402	222-A60-THA-208V			277	60° Asymmetrical	04912802			04913102			
04893502	222-A60-THA-240V					04912902						
04893602	222-A60-THA-277V					04913002						
04893702	222-A60-THA-480V					04913102						
04893802	222-90-THA-208V			480	90° Symmetrical	04912802			04913102			
04893902	222-90-THA-240V					04912902						
04894002	222-90-THA-277V					04913002						
04894102	222-90-THA-480V					04913102						
04894202	342-30-THA-208V	5.0	17,065	208	30° Symmetrical	04913202	25	1519				
04894302	342-30-THA-240V					04913302						
04894402	342-30-THA-480V					04913502						
04894502	342-A30-THA-208V			240	30° Asymmetrical	04913202			04913502			
04894602	342-A30-THA-240V					04913302						
04894702	342-A30-THA-480V					04913502						
04894802	342-60-THA-208V			480	60° Symmetrical	04913202			04913502			
04894902	342-60-THA-240V					04913302						
04895002	342-60-THA-480V					04913502						
04895102	342-A60-THA-208V			208	60° Asymmetrical	04913202			04913502			
04895202	342-A60-THA-240V					04913302						
04895302	342-A60-THA-480V					04913502						
04895402	342-90-THA-208V			240	90° Symmetrical	04913202			04913502			
04895502	342-90-THA-240V					04913302						
04895602	342-90-THA-480V					04913502						
04895702	462-30-THA-480V			7.3	24,915	480			30° Symmetrical	04913602	32	1826
04895802	462-A30-THA-480V								30° Asymmetrical	04913602		
04895902	462-60-THA-480V								60° Symmetrical	04913602		
04896002	462-A60-THA-480V								60° Asymmetrical	04913602		
04896102	462-90-THA-480V								90° Symmetrical	04913602		

NOTE: Consult the factory, the product instruction manual, or a licensed electrician for 3-phase wiring of all 2-element heaters.

### Optional THA Wire Guards

MFG CATALOG NUMBER	MFG MODEL NUMBER	LIST
04898602	THA222 GUARD	81
04898702	THA223 GUARD	81
04898802	THA342 GUARD	108
04898902	THA343 GUARD	108
04899002	THA462 GUARD	151
04899102	THA463 GUARD	151