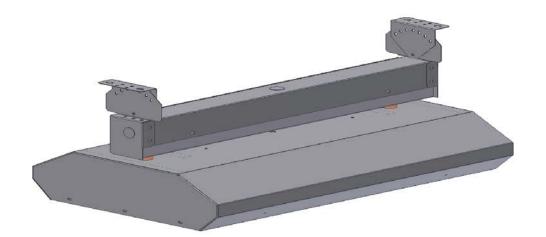


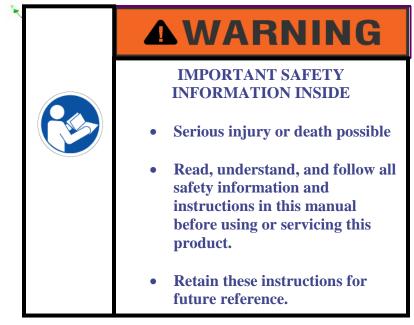
TPI Corporation P.O. Box 4973 Johnson City, 37602 WWW.TPICORP.COM



MTM Series 222,223,342,343,462,463 2 and 3 Lamp Units

OVERHEAD ELECTRIC INFRARED HEATER





REFER TO COMPLETE INDEX OF INFORMATION ON **PAGE 2**

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ATTENTION: The table to the right provides definitions of the signal words that can be found throughout this These signal words are manual. used to express the severity of the hazard at hand. The signal words are generally used in conjunction with safety symbols that correspond to the text for that particular hazard. As you read this manual, refer back to this table when you are unsure of the signal word definition.

SIGNAL WORD DEFINITIONS				
▲DANGER	DANGER indicates an imminently hæardous situation which, if not avoided, will result in death or serious injury.			
	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.			
	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.			
CAUTION used without the safety alert sym bol indicates a potentially hazardous situation which, if not avoided, may result property dam age.				
As defined in ANSI Z535.4-2002				



AWARNING

READ THIS MANUAL CAREFULLY before installing or servicing this product. Improper installation, operation, or maintenance can result in death, severe injury, or property damage!

NOT FOR INDOOR RESIDENTIAL USE!

FOR INDOOR COMERCIAL/INDUSTRIAL USE.

FOR PROTECTED AND UNPROTECTED OUTDOOR USE.

NOT FOR USE IN HAZARDOUS OR EXPLOSIVE ATMOSPHERES!

INSTALLATION AND SERVICE OF THESE PRODUCTS MUST BE CONDUCTED BY TRAINED PERSONNEL EXPERIENCED WITH ELECTRICAL EQUIPMENT.

<u>CLEARANCES TO COMBUSTIBLES</u> AS DOCUMENTED IN THIS MANUAL AND ON THE HEATER <u>MUST BE MAINTAINED</u> AT ALL TIMES!

<u>Combustibles</u>: Failure to maintain minimum clearances to combustible materials can result in serious fire hazard. Locations used for storage of combustible materials must have signs posted to specify maximum permissible stacking heights such that required clearances are maintained. These signs must be conspicuously located or adjacent to heater thermostats.

<u>Vehicles</u>: These heaters must be installed such that the minimum clearances described in this manual are maintained from vehicles parked below the heater.

<u>Suspension</u>: The use of appropriate mounting hardware (beam clamps, chains, rods, turnbuckles, etc.) are a must. The weight of the heater must be entirely supported from a permanent part of the building structure having adequate load characteristics.

Do not attach ductwork to this heater or attempt to use it as a make-up air heater. Such use voids the warranty and may create unsafe conditions.

Do not insert fingers or foreign objects into the heater. Do not block or tamper with the heater while it is in operation. Do not touch heater while it is in operation or just after it has been turned off, as some parts may be hot enough to cause injury. Make certain that the power source conforms to the electrical requirements of the heater. Disconnect power before installing or servicing. If the power disconnect is out of sight, lock it in the open position and tag it to prevent unexpected application of power. Failure to do so could result in fatal electric shock.

WARNING: DO NOT DEPEND UPON A THERMOSTAT OR OTHER SWITCH AS THE SOLE MEANS OF DISCONNECTING POWER WHEN **INSTALLING** OR SERVICING THE HEATER. FOR CE APPLICATIONS AN ALL POLE DISCONNECT WITH CONTACT **SEPARATION OF AT LEAST 3mm MUST BE USED. ALWAYS DISCONNECT BREAKER** AS DESCRIBED ABOVE. FAILURE TO DO SO COULD RESULT IN FATAL ELECTRIC SHOCK.

This heater is intended ONLY for permanent installation in accordance with the National Electric Code (NEC), all applicable local codes and ordinances, and all sections of this manual. Any variance voids the warranty and may create unsafe conditions.

USE COPPER WIRING ONLY

Special attention must be given to any bonding* (grounding) information pertaining to this heater. To prevent the risk of electrocution, the heater must be securely and adequately bonded. This should be accomplished by connecting a conductor between the service panel and the green grounding screw provided on the heater. To ensure a proper bond, the bonding means must be tested by a qualified electrician.

Check branch voltage. Heaters should be operated at voltages no higher than the heating elements and the heater are designed for. (Lower voltages, however, pose no problem other than a loss of wattage). Heaters are not intended for process heating applications.

In cases where property damage may result from malfunction of the heater, a back-up system or a temperature alarm should be used.

*Bonding is the term that describes the completion of the electrical circuit back to its source, which allows a breaker or fuse to clear if a short occurs in the line.

IMPORTANT INSTRUCTIONS

- 1. Read all instructions before installing or using the heater.
- 2. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep away from combustible materials at minimum, the following required distances.

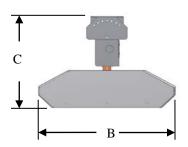
CAUTION: <u>DO NOT</u> install closer than 24 inches to a vertical surface or 6 inches to a ceiling. Heaters <u>MUST BE SEPARATED</u> by more than 36 inches and 72 inches from any combustible surface in direct radiation path.

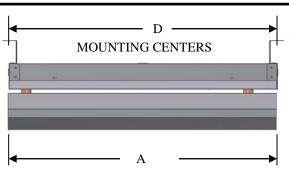
ATTENTION: NE PAS installer à moins de 24 pouces à une surface verticale ou 6 pouces à un plafond. Chauffe doivent être séparés par plus de 36 pouces et 72 pouces de toute surface combustible dans le chemin de rayonnement direct

- 3. Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- 4. Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- 5. Do not use outdoors.
- 6. To disconnect heater, turn controls to off, and turn off power to heater circuit at the main disconnect panel (or operate internal disconnect switch if provided).
- 7. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage to the heater.
- 8. To prevent a possible fire, do not block air intakes or exhaust in any manner.
- 9. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
- 10. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.

SAVE THESE INSTRUCTIONS

SPECIFICATIONS





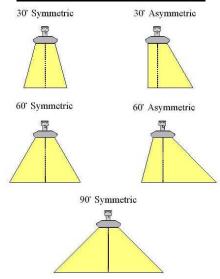
HEATER	NUMBER	VOLTAGE	WATTAGE	BTU'S	Α	В	С	D
SERIES	OF LAMPS	and PHASE						
		208; 1ph						
222	2	240; 1ph	3200	10,992	24"	15"	11"	23-1/2"
	2	277; 1ph	5200	10,992	24	15	11	23-1/2
		480; 1ph						
		208; 1 or 3ph						
		220; 1 or 3ph						
223	3	3 240; 1 or 3ph 277; 1 or 3ph 4800 16,382	24"	21-1/2"	11"	23-1/2"		
225	5		24	21-1/2	11			
		380; 1 or 3ph						
		480; 1 or 3ph						
		208; 1ph						
		240; 1ph						
342	2	277; 1ph	5000	17,065	33"	15"	11"	32-1/2"
		480; 1ph						
		600; 1ph						
		208; 1or 3ph						
		240; 1 or 3ph						
343	3	277; 1 or 3ph	7500	25,298 3	25,298 33"	33" 21-1/2"	11"	32-1/2"
		480; 1 or 3ph						
		600; 1 or 3ph						
462	2	480; 1ph	7300	24,915	46"	15"	11"	45-1/2'
102	2	600; 1ph	7600	21,915	10	15	11	15 172
		380; 1 or 3ph	10950					
463	3	480; 1 or 3ph		37,372	46"	21-1/2"	11"	45-1/2"
		600; 1 or 3ph	11400					

MODEL NUMBER DESIGNATION CHART

SERIES -	REFLECTOR - PATTERNS	TAB - HINGE	HOUSING - MATERIAL	VOLTAGE
				208V
222	30	ТН	BLANK = BROWN	220V
223	60		55	240V
342	90		SS = STAINLESS STEEL	277V
343	A30		STELL	380V
462	A60			480V
463	1	I	I	577V
Model Con	figuration Exampl	les: 222-30	-TH-240V	

or 343-90-THSS-480V

REFLECTOR PATTERNS



REV. LEVEL: 16 ECO 1-6933

INSTALLATION PLANNING

The Fostoria Mul-T-Mount Series offers the highest watt density and heating efficiency in an electric infrared heater. All models are listed for spot-heat or total building heat indoors (excluding residential), or for totally unprotected outdoor applications. Fixtures are also listed for recessed applications, such as in ceilings or canopies.

2-Lamp models are available in either Stainless Steel or a Hi-Temp Brown Powder Coated finish. 3-Lamp models are only available in Stainless Steel.

The specially designed "T" Tab wire channel allows for one-man installation.

No asbestos or mercury is used in the manufacture of these heaters.

CHECKING YOUR SHIPMENT

Upon receipt of your shipment, check the carton(s) for damage.

Any accessory items ordered for heater will be shipped in their own carton.

Claims for damaged material or shortages that were not evident upon receipt of shipment must be reported to carrier and Fostoria customer service immediately.

Before starting to install the heater, make sure that all components and accessories ordered are available.

INSTALLER QUALIFICATIONS

Only firms or individuals qualified to perform work in accordance with the applicable specifications for electrical equipment should be engaged to install Fostoria MTM systems. Consult local building inspectors, fire marshals, your local Fostoria representative or the factory for guidance.

INSTALLER RESPONSIBILITY

National and local codes and ordinances together with specifications provided by Fostoria Industries, Inc. comprise the information needed for proper installation. The installer must furnish all materials that have not been purchased from Fostoria Industries or its representatives. It is the installer's responsibility that the materials and methods of installation result in a job that is workmanlike and in keeping with all applicable codes.

In storage areas where stacking of materials may occur, the installer must provide signs which specify the maximum stacking height so as to maintain the required clearances to combustibles.

ELECTRICAL BONDING (GROUNDING)

A protective non-corrosive conductor terminal must be firmly attached to a protective bonding conductor (both supplied by customer). This must then be secured to the heater with the supplied green screw and lock washer in the heater wireway to ensure a proper bond (ground).

LAYOUT DESIGN

When positioning heaters, keep in mind the clearance to combustible materials, lights, sprinkler heads, overhead doors, storage areas with stacked materials, gas and electrical lines, parked vehicles, cranes, etc. Refer to page six (6) for minimum clearance to verify that a safe installation condition exists.

APPLICATION GUIDE

OUTDOOR COMFORT HEATING

Two (2) watts per square foot is equal to One (1) degree temperature rise. Heater installation shall comply with all OIPM, NEC, and local restrictions.

		1		
Model Series	Recommended	Coverage of Heater	Watts per	Termperature Rise
Would Series	Mounting Height (ft.)	Length x Width (ft.)	Square Foot	Expected
222-60	8-10	10.5 x 9.5	32	15°
223-60	8-10	10.5 x 9.5	48	24°
342-60	10-12	14 x 12	30	15°
343-60	10-12	14 x 12	45	23°
462-60	10-12	15 x 12	41	20°
463-60	10-12	15 x 12	61	30°

COMFORT (OUTDOOR) APPLICATION CHART

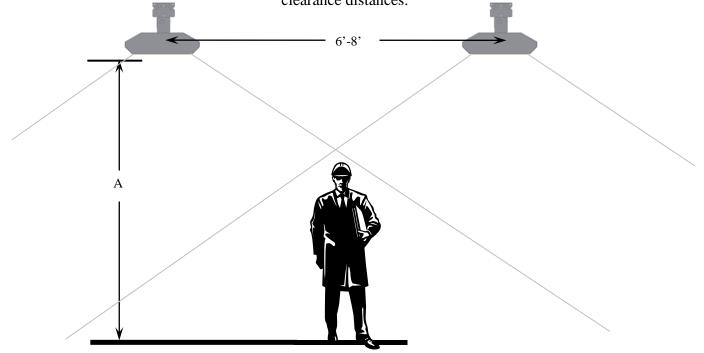
INDOOR SPOT HEATING

One (1) watt per square foot is equal to One (1) degree temperature rise. When comfort spot heating people, two heaters should be used to heat both sides of the individual. Heater installation shall comply with all OIPM, NEC, and local restrictions.

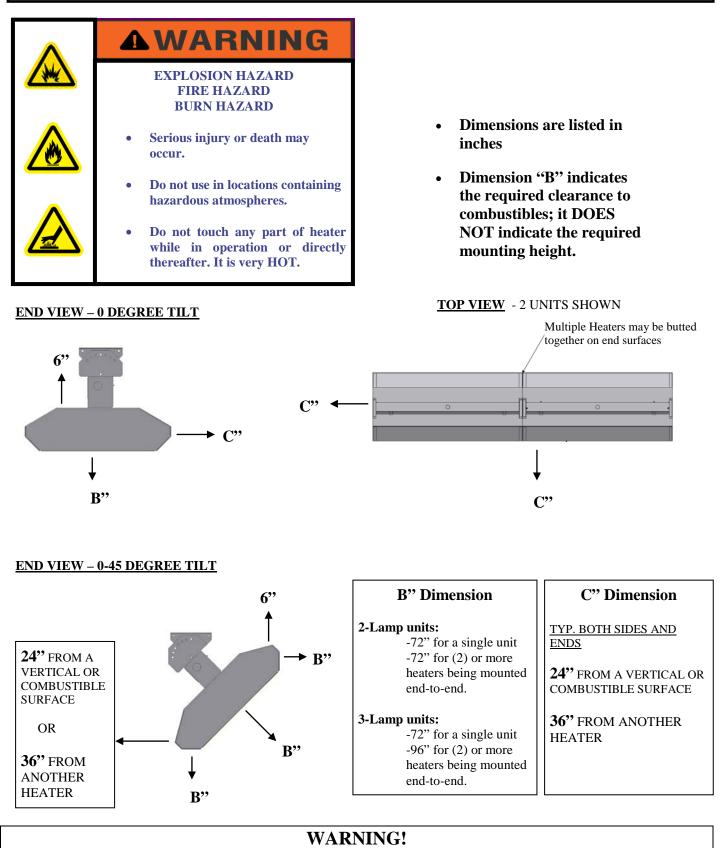
SI OT HEATING (INDOOR) AT LICATION CHART						
	Recommended	Coverage of Heater	Watts per	Temperature		
Model Series	Mounting Height (ft.)	Length x Width (ft.)	Square Foot	Rise Expected		
	A*					
222-60	8-10	13 x 12	21	20°		
223-60	10-12	15 x 14	23	23°		
222-30	12-14	8.5 x 7.5	50	50°		
342-60	8-10	14 x 12	30	30°		
343-60	10-12	16 x 14	34	34°		
462-60	12-14	19 x 16	24	24°		
463-60	12-14	19 x 16	36	36°		

SPOT HEATING (INDOOR) APPLICATION CHART

*Clearances to combustibles must be maintained regardless of recommended mounting height. See page 7 for clearance distances.



MINIMUM CLEARANCES TO COMBUSTIBLES



Heaters should be installed so that the minimum clearance to vehicles, as marked on the heater, will be maintained. If vehicle lifts are present, ensure that the minimum clearance to combustibles will be maintained from the highest raised vehicle.

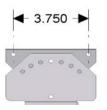
<u>CLEARANCES TO COMBUSTIBLES</u> AS ON PAGE 6 OF THIS MANUAL AND ON THE HEATER <u>MUST BE MAINTAINED</u> AT ALL TIMES!

NOTE: If asymmetrical reflectors are used, be sure to mount the wireway with the "T" slots facing away from the wall or obstruction, and toward the area to be heated.

CAUTION: Install heater so that the quartz lamps are horizontal. Failure to do this may cause the heating element within the tube to sag and cause premature burnout.

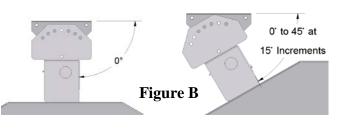
Mounting Centers

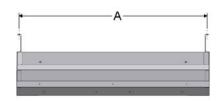
Heater Series	"A" dimension
222 & 223	23-1/2
342 & 343	32-1/2
462 & 463	45-1/2

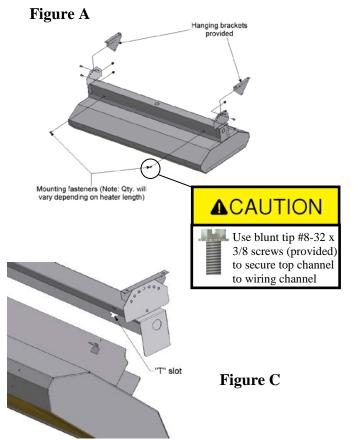


Top channel assembly

- Attach the adjustment hanging brackets to the top wire channel. On each end, place (1) 10-32 x ¹/₂ screw through the bottom hole of the adjustment hanging bracket and through the bottom hole of the top wire channel. Place (1) 10-32 lock nut on the screw. Don't tighten completely. <u>NOTE</u>: The adjustment hanging brackets are **NOT** required for chain suspension.
- 2. Adjust bracket to desired mounting angle (see figure B).
- 3. Place (1) 10-32 x ¹/₂" screw through the slot in the adjustment hanging bracket and the hole in the top wire channel. Place (1) 10-32 lock nut on the screw and tighten.
- 4. Tighten 10-32 lock nuts from step #1.
- 5. Hook heater body into mounted wire channel cover. Unit will hang freely by the "T" tabs, leaving both hands free to wire unit (see figure C).
- Close wire channel using the (4 or 6) 8-32 x 3/8 screws provided in hardware pack. <u>NOTE</u>: Quantity will vary depending on heater length.







MOUNTING OPTIONS

CHAIN SUSPENSION: Use 14 gauge jack chain and "S" hooks (not supplied). "S" hooks must be crimped shut so the heater cannot be inadvertently lifted off of its mounting.

*NOTE – 462 & 463 Series heaters are <u>not</u> designed for chain suspension. One of the three mounting options to the right should be used for these heaters. **<u>STEM SUSPENSION:</u>** Use solid rods (1/4" diameter min.) or suitable tubing. Drill holes in top wire channel 4" from each end for mounting.

VMB-41-SS: Wall Mounting Bracket.

<u>RECESSED MOUNTING:</u> Refer to page 15 of this manual.

TOTALLY EXPOSED OUTDOOR APPLICATIONS

Heater

Wireway

For totally exposed outdoor applications (not ceiling protected) the connections must be made as illustrated at right.

CAUTION

Red sleeves used for visible light reduction are <u>not recommended</u> for applications near costal waters. Purchase lamps with integral light filter from factory for these applications. See page 13.

Heater Housing Note: All conduit, conduit fittings and junction boxes are supplied by the customer.

NEMA Type 4 or

equal connection

LAMP INSTALLATION & REPLACEMENT

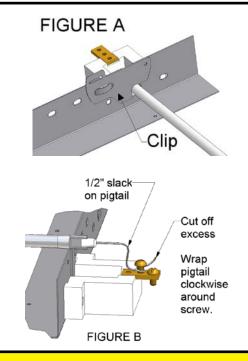
CAUTION: Disconnect power before installing or replacing supplied quartz lamps or quartz tubes. These elements can and should be installed prior to mounting heater.

- 1. Remove the housing end caps and open positioning clips.
- 2. Position heating elements in "L" slots at ends of reflector. Avoid handling quartz glass as much as practical. Quartz glass should be wiped off with a clean cloth.
- 3. Close positioning clips to secure the heating element in the slot (see figure A).
- 4. Carefully wrap heating element pigtail clockwise around terminal screws (see figure B).
- 5. Tighten terminal screws (see figure B). CAUTION: Do not draw pigtail so tight that pressure is put on heating element. Maintain a partial loop (or looseness) in the pigtail.

NOTE: Cut excess pigtail off at terminal to prevent lead from touching metal parts.

6. Replace end caps using sheet metal screws removed in Step 1.

Note: The Mul-T-Mount heaters are designed for use with Fostoria quartz lamp infrared heating elements only. **They are NOT intended to be used with straight metal rod heating elements.**



Conduit

NEMA Type 4 or equal

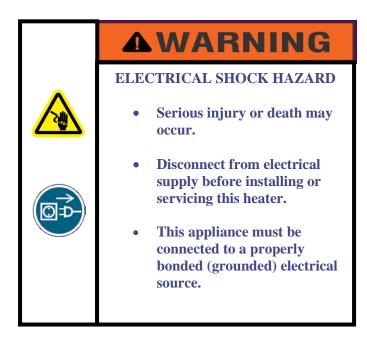
locations shown.

connection required at

POSSIBLE LAMP FAILURE

The heating elements used in this product can be damaged by contamination (salt deposits from perspiration or coastal air) on the surface of the quartz sleeve. At high temperatures, these salts will cause the quartz to become porous and leak, allowing air to come in contact with the tungsten element. When this occurs, the element will burn out quickly and the outer quartz sleeve can break. The instructions below must be followed.

- Always wear cotton or latex gloves when installing or replacing elements.
- Always clean the quartz sleeve with an alcohol moistened soft cloth before using the heater
- Whenever contamination (milky white appearance on quartz sleeve) is observed, the element must be immediately replaced.



This fixture is equipped with 4 high-temperature silicone lead wires to accommodate either single phase or three phase electrical service. They are shipped wire-tied together. Remove the wire-tie before making electrical connections.

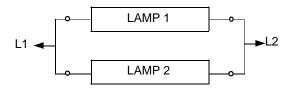
Wiring connections should always be made through one of the knockouts in the top wire channel. Consult the factory, or a qualified electrician for details on staging.

Supply wires must be copper and rated for at least 90° C. Wire connectors should also have a minimum rating of 90° C.

For use in TOTALLY EXPOSED OUTDOOR APPLICATIONS refer to page 9.

SINGLE-STAGE WIRING

Connect both wires from one end of heater to L1 and the remaining wires from the other end to L2 in the control panel.

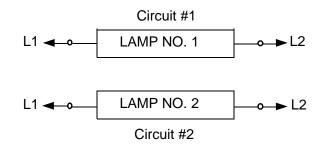


TWO-STAGE WIRING

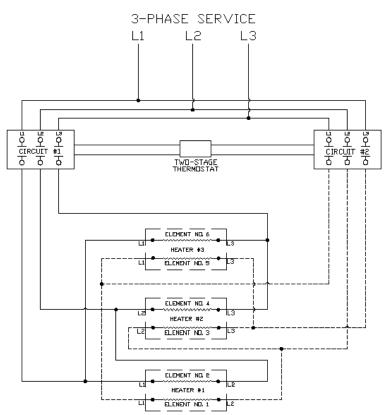
Two-stage operation allows one or both lamps in the heater(s) to be energized, depending on the signal from an appropriate two-stage control device (e.g. two-stage thermostat). This will allow the heater(s) to operate at 50% on, 100% on, or 100% off; instead of limiting the operation to 100% on or 100% off.

Two circuits are required for two-stage wiring.

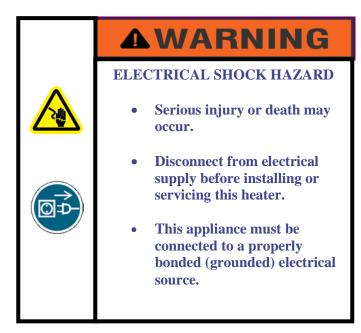
For two-stage operation connect L1 & L2 of circuit #1 to lamp #1 and connect L1 & L2 of circuit #2 to lamp #2 as illustrated below.



Common component layout for controlling Fostoria Mul-T-Mount heaters (2 Stage wiring shown) This is <u>NOT</u> a wiring schematic



WIRING FOR UNITS WITH (3) LAMPS



This fixture is equipped with 6 high-temperature silicone lead wires to accommodate either single phase or three phase electrical service. They are shipped wire-tied together. Remove the wire-tie before making electrical connections.

Wiring connections should always be made through one of the knockouts in the top wire channel. Refer to Figure C for totally exposed outdoor applications. Consult the factory, or a qualified electrician for details on staging.

Supply wires must be copper and rated for at least 90° C. Wire connectors should also have a minimum rating of 90° C.

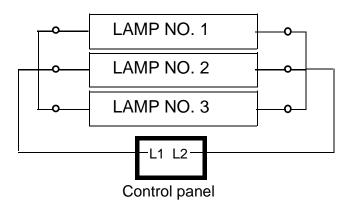
For use in TOTALLY EXPOSED OUTDOOR APPLICATIONS refer to page 9.

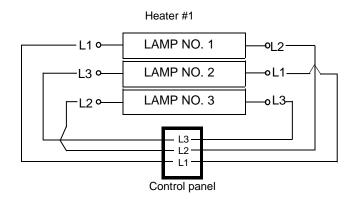
SINGLE PHASE, SINGLE STAGE WIRING

Connect all three wires from one end of heater to L1 and the remaining three wires from the other end to L2; refer to diagram below.

THREE PHASE, SINGLE STAGE WIRING

Balance each leg throughout the three elements in each heater, as shown below.

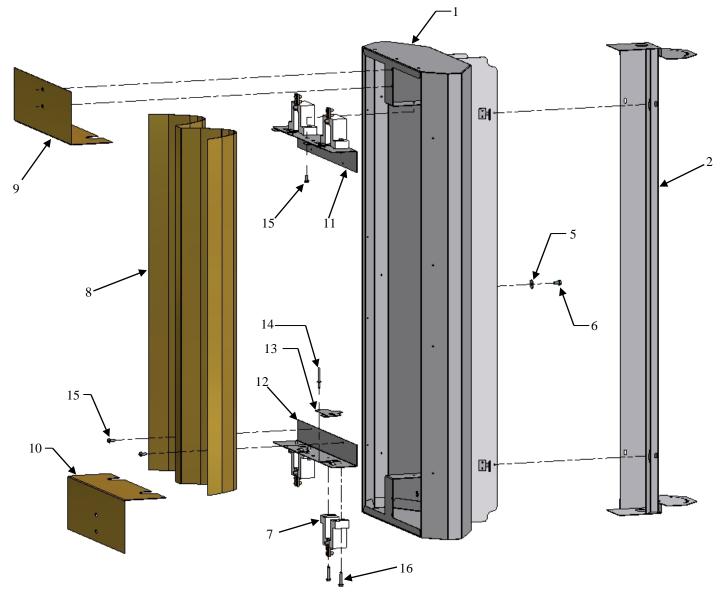




REPLACEMENT PART LIST and EXPLODED VIEW

Item	Description	Part	2-Lamp	3-Lamp
No.	Description	Number	Qty.	Qty.
1	Housing Assembly	Call Factory	1	1
2	Top Wire Channel	Call Factory	1	1
3	Quartz Lamp	See chart	2	3
4	Hardware Package	2406939	1	1
5	Washer curved	03476700	1	1
6	Screw #10-32 x 3/8	1458	1	1
7	Socket Assembly	8500002	4	6
8	Reflector	See chart	1	1
9	End Cap – LH	Call Factory	1	1
10	End Cap – RH	Call Factory	1	1
11	Lamp Positioner – LH	See chart	1	1
12	Lamp Positioner - RH	See chart	1	1
13	Lamp Clip	8506939	4	6
14	Rivet - SS	32196002	4	6
15	Screw #8-15 x ¹ / ₂	03470800	6	8
16	Screw #8-18 x 7/8	24650000	8	12

MODEL 342 SHOWN FOR REFERENCE



REPLACEMENT PARTS LIST (cont.)

Item #3– (Clear Quartz Lamp	Lamps w/integral light filter	
Series	Description	Part No.	Part No.
	208V 1600W	04401602	6321620
	220V 1600W	04401702	6321624
222 & 223	240V 1600W	04401702	6321624
222 & 225	277V 1600W	04401802	
380V 1600W		04861102	
	480V 1600W	04817302	
	208V 2500W	04817402	
	240V 2500W	04817502	
342 & 343	277V 2500W	04817602	
	480V 2500W	04405402	6322548
	600V 2500W	04406802	
	380V 3638W	04861202	
462 & 463	480V 3650W	04406702	6323648
	600V 3800W	04817702	

Series	Reflector	Item #8	Item #11	Item #12
Series	Pattern	Part No.	Part No.	Part No.
	30	8550000	8567800	8567800
	60	8550100	8567900	8567900
222	90	8550200	8568000	8568000
	A30	8550300	8567601	8567600
	A60	8550500	8567701	8567700
	30	8551800	8567300	8567300
	60	8551900	8567400	8567400
223	90	8552000	8567500	8567500
	A30	8552100	8568101	8568100
	A60	8552200	8568201	8568200
	30	8550600	8567800	8567800
	60	8550700	8567900	8567900
342	90	8550800	8508000	8568000
	A30	8550900	8567601	8567600
	A60	8551100	8567701	8567700
	30	8552300	8567300	8567300
	60	8552400	8567400	8567400
343	90	8552500	8567500	8567500
	A30	8552600	8568101	8568100
	A60	8552700	8568201	8568200
	30	8551200	8567800	8567800
	60	8551300	8567900	8567900
462	90	8551400	8508000	8568000
	A30	8551500	8567601	8567600
	A60	8551700	8567701	8567700
	30	8552800	8567300	8567300
	60	8552900	8567400	8567400
463	90	8553000	8567500	8567500
	A30	8553100	8568101	8568100
	A60	8553200	8568201	8568200

MAINTENANCE

Pre-Season Maintenance and Annual Inspection

To ensure your safety and for years of trouble-free operation of the heating system, annual service and inspections must be done by a qualified contractor.

To obtain maximum performance from your heater(s) each year, we recommend the following be performed at the start of the heating season:

- 1. Clean reflector surface with a damp cloth.
- 2. Make sure heater is secure on all hanging points.
- 3. **Maintain the Clearance to Combustibles.** Immediately remove objects in violation of the clearance to combustibles.

If additional service to the heater is required, contact the factory or your local representative.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Element does not energize.	 Defective element. Improper connection. Pigtail loose from socket connection. 	 Replace element. Check connection to power source. Rewind or re-insert pigtail into socket.
Not enough heat.	 Heater too small for application. Heater mounted too high or too far. 	 Add more heaters. Decrease mounting height or distance.
Too much heat.	 Heater too large for application. Heater mounted too low or too close. 	 Replace with smaller heater. Increase mounting height or distance.

OPTIONAL RECESSED MOUNTING FRAME INSTALLATION

MOUNTING INSTRUCTIONS

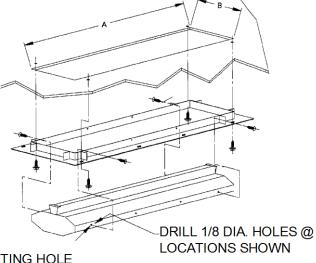
- 1. Mount frame to heater with #8 x 1/2" long sheet metal screws supplied by customer. Four screws are required on the RMF-222-A, six required on the RMF-342-A and eight on the RMF-462-A and RMF-223-SS units; ten screws are required on the RMF-343-SS and twelve on the RMF-463-SS models. Use the frame as a template for laying out the holes.
- 2. Mount the frame to the ceiling, using the outside slots only, with 1/4" lag screws provided by the customer. Four lag screws are required on the RMF-222-A and RMF-223-SS units, six on the RMF-342-A and RMF-343-SS, and eight on the RMF-462-A and RMF-463-SS units. Tabs will center frame in opening. **CAUTION: To maintain required clearance above heater, refer to minimum clearances to combustible on page 7.**

FIELD WIRING CONNECTIONS

A. Select the appropriate knockout on the top wiring channel, and install a 12" conduit nipple and splice box (customer supplied).

B. Route the leads from the wiring channel through the conduit and connect with the supply wiring inside the splice box.

C. Follow local and national electric codes.



NOTE: Hold dimensions A and B to + 1/8" for rough opening in the ceiling.

MOUNTING HOLE CENTERLINE (TYPICAL)

Heater Series		Model	Part No.	DIM. A (IN.)	DIM B. (IN.)	
222	Painted	RMF-222-A	04494402	27 ¼		
222	Stainless	RMF-222-SS-A	04419902	21 74	18	
342	Painted	RMF-342-A	04418702	36 ¼		
342	Stainless	RMF-342-SS-A	04420702	30 74		
462	Painted	RMF-462-A	04494502	49 ¼	7	
402	Stainless	RMF-462-SS-A	04421002	49 74		
223		RMF-223-SS	08811039	32 ¼		
343		RMF-343-SS	08811339	41 ¼	29 5/8	
463		RMF-463-SS	08811139	54 ¼		

OPTIONAL WIRE GUARD INSTALLATION

Heater Series	Wire Guard	Part Number
222	CHWG-222-A	08511500
223	CHWG-223	08543600
342	CHWG-342	08511400
343	CHWG-343	08543500
462	CHWG-462	08516200
463	CHWG-463	08543400

CAUTION: DISCONNECT POWER BEFORE INSTALLING OR SERVICING. IF THE POWER DISCONNECT IS OUT OF SIGHT, LOCK IT IN THE OPEN POSITION AND TAG IT TO PREVENT UNEXPECTED APPLICATION OF POWER. FAILURE TO DO SO COULD RESULT IN FATAL ELECTRICAL SHOCK.

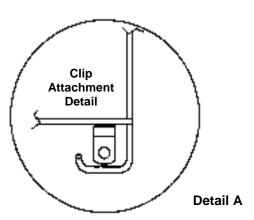
Mounting holes for attaching the lamp guard are provided in heater housing. NOTE: Mounting holes are <u>not</u> provided on older models. Using the drill starts provided in the heater housing, drill a 1/8" diameter hole at each location. (See dimensional details.)

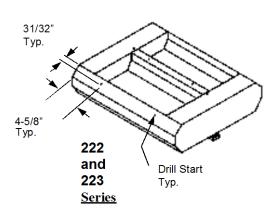
- 1. Place mounting clips provided, on the loops of the lamp guard (see Detail A below).
- 2. Attach the lamp guard to the heater using the #8 sheet metal screws provided.

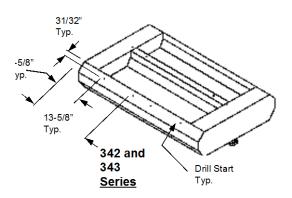
MAINTENANCE

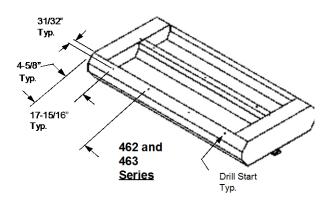
CAUTION: Disconnect power before installing or servicing. If the power disconnect is out of sight, lock it in the open position and tag it to prevent unexpected application of power. Failure to do so could result in fatal electrical shock.

To service the heater in the overhead position, it will be necessary to remove the screws from only one side of the lamp guard. The lamp guard will then swing clear of the heater.









LIMITED WARRANTY

Products manufactured by TPI Corporation are warranted to the original consumer to be free from defects in material and workmanship for twelve (12) months from the original purchase date.

The TPI limited warranty does not cover products that have been modified outside of our factory, damage or failure caused by acts of God, abuse, misuse, connected to or placed on other than rated voltage, abnormal usage, fault, installation, failure to follow suggested maintenance procedures enclosed with the product, improper maintenance or any repairs other than those provided by an authorized TPI service center.

There are no obligations or liabilities on the part of the Corporation for consequential damages arising out of or in connection with the use or performance of the product or other indirect damages with respect to loss of property, revenues, profit, costs of removal installation, or reinstallation.

All implied warranties with respect to TPI products, including implied warranties for merchantability and implied warranties for fitness, are limited in duration to twelve (12) months from original date of purchase, except those products or parts of products which are warranted for long periods thereon.

Some states do not allow the exclusions or limitation of incidental or consequential damages and some states do not allow limitations on how long an implied warranty lasts. The above exclusions or limitations may not apply to you.

During the warranty period, TPI Corporation will, at its sole option, repair or replace any defective parts or products returned, freight prepaid, to the TPI Corporation factory or such other locations as TPI Corporation may designate. Returned products must be packaged carefully and TPI Corporation shall not be responsible for damage in transit.

When returning parts, the owner must provide the model number of the product and nature of difficulty being experienced. This warranty does not obligate TPI Corporation to bear the cost of labor in replacing any assembly, unit or component part thereof, nor does the company assume any liability for secondary charges, expenses for installing or removal, freight or damages. There will be charges rendered for product repairs made after the warranty period has expired. Proof of purchase, including date, must accompany request for in-warranty service. In any event, TPI Corporation's maximum liability shall not in any case exceed the list price for the product claimed to be defective. This warranty gives to you specific legal rights and you may have other rights, which may vary from state to state. For the name of your nearest authorized TPI Corporation service center, please write to TPI Corporation, P.O. Box 4973, Johnson City, TN 37602.

HEATING PRODUCTS WARRANTY COVERAGE		
Heating Products Elements in Baseboards	10 Years	
All other Heating Products	1 Year	
Thermostats and Controls	2 Years	

VENTILATION PRODUCTS WARRANTY COVERAGE		
Series HD or HDH Fans	5 Years	
Series UHP or IHP Fans	3 Years	
All other Ventilation Products	1 Year	