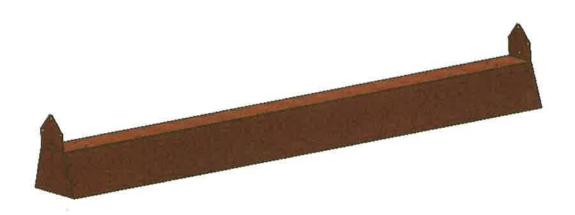


TPI Corporation P.O. Box 4973 Johnson City, TN 37601 www.tpicorp.com



## OCH-series Cord Connected Units Indoor \* and Outdoor Comfort Heaters



\* EXCLUDING RESIDENCES

## **AWARNING**

## IMPORTANT SAFETY INFORMATION INSIDE



- Serious injury or death possible
- Read, understand, and follow all safety information and instructions in this manual before using or servicing this product.
- Retain these instructions for future reference.

# 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 manual. These signal words are 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			
<b>A</b> DANGER	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.		
<b>▲</b> WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.		
<b>▲</b> CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.		
CAUTION	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.		
As defined in ANSI Z535.4-2002			

#### **SPECIFICATIONS**

#### **DESCRIPTION**

Fostoria multi-purpose OCH series electric infrared heaters are designed to provide efficient spot heating for many commercial and industrial applications. All models operate with a single quartz tube emitter included with the heater, are easily installed, and are equipped with spectral reflectors for excellent radiant output. They are built with corrosion-resistant materials and are listed for both INDOOR (excluding residences) AND OUTDOOR applications in the USA and Canada.



## **▲**WARNING

#### EXPLOSION HAZARD FIRE HAZARD

- Serious injury or death may occur.
- Do not use in locations containing hazardous atmospheres.
- Do not use inside residences.



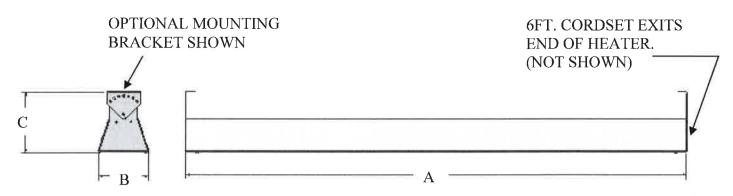
#### **SPECIFICATIONS**

Housing	24 ga. Galvannealed	
Finish	Hi temp. brown powder coat	
Reflectors, end	0.040" gold anodized aluminum	
caps		
Suspension	Adjustable Mounting Bracket or	
	Chain	

Voltage	Cordset Plugs	Matching
120V	NEMA 5-15P	Receptacle NEMA 5-15R
240V	NEMA 6-15P	NEMA 6-15R

Model	P/N	Tube P/N	Watts	Volts	Amps	Cordset	Dim A*	Dim B	Dim C
OCH-46-120V-CE	04859702	04432302	1500	120	12.5	YES	48.0"	5.375"	6.500"
OCH-57-208V-CE	04859802	04416602	3000	208	14.4	**	59.0"	5.375"	6.500"
OCH-57-240V-CE	04859902	04414702	3000	240	12.5	YES	59.0"	5.375"	6.500"

<sup>\*\* 208</sup> Volt Models are supplied with a 6 ft cord only (no plug)



#### **OUARTZ TUBE INSTALLATION**

## **WARNING**



#### ELECTRICAL SHOCK HAZARD

- Serious injury or death may occur.
- Disconnect from electrical supply before installing or servicing this heater.
- Reflector end caps must be installed prior to powering the unit; refer to note #3.



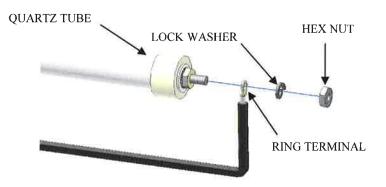
## CAUTION

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

Each heater is equipped with two hi-temperature silicone lead wires and a ground termination. Make sure power source conforms to the heater requirements. Use only Fostoria quartz tubes.

- 1. Insert quartz tube in the "L"-shaped slots in heater housing.
- 2. On each end of the quartz tube, place (1) lead wire ring terminal, (1) lock washer and (1) hex nut on the threaded stud and **tighten securely** (see image below). Lock washers and hex nuts are provided in hardware package.

NOTE – Use a second wrench to hold the inner hex nut in place while tightening the outer hex nut. Failure to securely tighten this connection will cause the element to fail prematurely.



3. Attach reflector end caps to both ends of housing using the (4) screws provided in hardware package.

#### **HEATER INSTALLATION**

#### MINIMUM INSTALLATION CLEARANCES

These heaters <u>MUST</u> be installed as follows:

- > 12 inches minimum from a vertical surface
- > 72 inches minimum from ANY combustible material
- > 3 inches minimum from the ceiling
- > 36 inches minimum from other heaters



### **AWARNING**

#### **FIRE HAZARD**

• Serious injury or death may occur.



- Read and follow clearances shown in box at left for ALL OCH series heater installations.
- Do not use inside residences.

NOTE: For optimum spot heating performance, it is recommended that the distance from the floor should be approximately 7 to 9 feet for the OCH-46 model, and 8 to 10 feet for OCH-57 models.

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#### **HEATER INSTALLATION continued**

#### **SUSPENSION ALTERNATIVES**

Your OCH series heater can be mounted with either the adjustable mounting brackets or by chain suspension. Both mounting options are included with the heater in the hardware package.

#### **Standard Mounting:**

In the hardware bag shipped with your heater you will find two adjustable mounting brackets and fastening hardware. Using the mounting centers specified in figures 1 & 2, mount your adjustable mounting brackets (bends to the inside). Once mounted, assemble the heater to brackets (figure 3) with mounting hardware, these brackets enable the heater to be angled in 15-degree increments up to 45 degrees.

#### **Chain Suspension:**

The heater can also be chain-hung as shown in figure 4. Cut the 16ga. chains (two 4 foot chains are provided) to desired length. Attach chains to heater with "S"-hooks provided and suspend from overhead structure. Crimp "S"-hooks closed after assembly.

## CAUTION

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

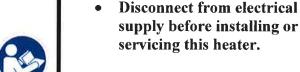


## **AWARNING**

#### ELECTRICAL SHOCK HAZARD



Serious injury or death may occur.



 Read and follow installation clearance requirements on page 4.

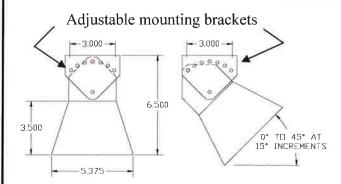


Figure 1: end view

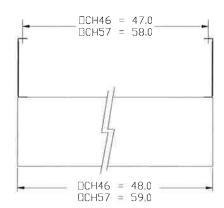


Figure 2: side view

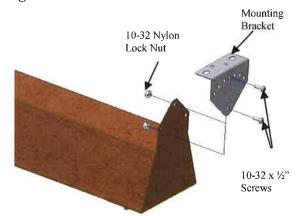


Figure 3: mounting view

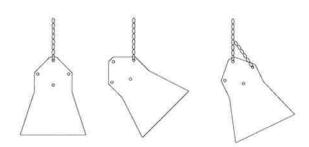
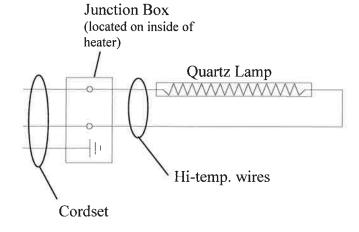


Figure 4: end view

#### WIRING

#### INTERNAL WIRING DIAGRAM

OCH heaters are equipped with two hi-temperature silicone lead wires and a bonding\* (ground) termination.



\*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.



## **AWARNING**

#### ELECTRICAL SHOCK HAZARD



- Serious injury or death may occur.
- Disconnect from electrical supply before installing or servicing this heater.



- Read and follow all safety information in box below.
- Make certain the power source conforms to specifications on the heater label.
- > Do not depend on a thermostat or other switch as the sole means of disconnecting power when installing or servicing heater. Always unplug the cordset or open the safety switch and lock it open.
- > All wiring must be performed by a licensed electrician.
- The cordsets supplied with these heaters are equipped with provisions for proper bonding (grounding). Always mate the cordset plug with the proper bonded (grounded) receptacle in accordance with the National Electric Code and all governing local codes and ordinances.
- > Do not use an extension cord to provide power to these heaters.
- > Never connect the green or greenyellow wire to a live or "hot" conductor.

#### **MAINTENANCE**

- 1. Always disconnect heater from power supply before performing any maintenance or service.
- 2. Periodically clean the reflector with a dampened soft cloth using mild detergent. Rinse with water and wipe dry with a clean soft cloth.



## **AWARNING**

## ELECTRICAL SHOCK HAZARD

- Serious injury or death may occur.
- Disconnect from electrical supply before installing or servicing this heater.

#### **TROUBLESHOOTING**

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION		
Element does not energize.	Defective element.     Improper connection.	Replace element.     Check connection to power outlet.		
Not enough heat.	Heater too small for application.     Heater mounted too high or too far.	Add additional heater(s)     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.		
Hot spot in tube.	Heater is not level.     Grease or moisture on tube.	Adjust to a level mount.     Clean tube-replace if problem persists.		

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#### 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 10 Years			
Baseboards	1 Year		
All other Heating Products	2 Years		
Thermostats and Controls			

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

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