

Quality Since 1917



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OCH Series



COMFORT HEATERS

for

INDOOR AND OUTDOOR USE



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.

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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 **U.L. listed** for both **INDOOR AND OUTDOOR applications in the USA and Canada.**

SPECIFICATIONS

Housing	24 ga. galv. or stainless steel (SS)
Finish	Hi temp. brown enamel paint
Reflectors, end	.032" anodized coilzak aluminum
caps	
Suspension	Bracket or chain
U.L. file	E32304
number	



AWARNING

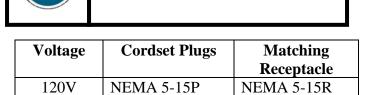
EXPLOSION HAZARD FIRE HAZARD



240V

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

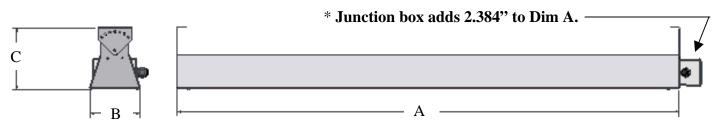
NEMA 6-15R



NEMA 6-15P

Model	P/N	Tube P/N	Watts	Volts	Amps	Cordset	Dim A*	Dim B	Dim C
OCH-46-120V	04804402	04432302	1500	120	12.5	YES	42.0"	5.375"	6.500"
OCH-46-208V	04804502	04418102	2000	208	9.6	**	42.0"	5.375"	6.500"
OCH-46-240V	04804602	04418002	2000	240	8.3	YES	42.0"	5.375"	6.500"
OCH-46-277V	04804702	04419302	2000	277	7.2	NO	42.0"	5.375"	6.500"
OCH-46-120V-SS	04805202	04432302	1500	120	12.5	YES	42.0"	5.375"	6.500"
OCH-46-208V-SS	04805302	04418102	2000	208	9.6	**	42.0"	5.375"	6.500"
OCH-46-240V-SS	04805402	04418002	2000	240	8.3	YES	42.0"	5.375"	6.500"
OCH-46-277V-SS	04805502	04419302	2000	277	7.2	NO	42.0"	5.375"	6.500"
OCH-57-208V	04804902	04416602	3000	208	14.4	**	53.0"	5.375"	6.500"
OCH-57-240V	04804802	04414702	3000	240	12.5	YES	53.0"	5.375"	6.500"
OCH-57-277V	04805002	04419402	3000	277	10.8	NO	53.0"	5.375"	6.500"
OCH-57-480V	04805102	04419502	2250	480	4.7	NO	53.0"	5.375"	6.500"
OCH-57-208V-SS	04805702	04416602	3000	208	14.4	**	53.0"	5.375"	6.500"
OCH-57-240V-SS	04805602	04414702	3000	240	12.5	YES	53.0"	5.375"	6.500"
OCH-57-277V-SS	04805802	04419402	3000	277	10.8	NO	53.0"	5.375"	6.500"
OCH-57-480V-SS	04805902	04419502	2250	480	4.7	NO	53.0"	5.375"	6.500"

^{** 208} Volt Models are supplied with a 6 ft cord only (no plug)



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OUARTZ TUBE INSTALLATION





ELECTRICAL SHOCK HAZARD

- Serious injury or death may occur.
- servicing this heater.



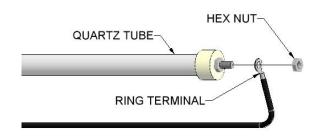
Disconnect from electrical supply before installing or

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 12 gauge silicone lead wires and a ground termination. Make sure power source conforms to the heater requirements. Use only Fostoria quartz tubes.

- a. Insert quartz tube in the "L"-shaped slots in heater housing.
- b. Remove first hex nut from each of the threaded studs on the quartz tube.
- c. Place ring terminals (attached to the wire leads) on the threaded studs, replace hex nuts and tighten securely.
- d. Remove protective white film from one or both end caps.
- e. Assemble both end caps to housing using the (4) screws provided in hardware package. For assembly views refer to items 6 and 7 on page 6 of this Instruction Manual



HEATER INSTALLATION

MINIMUM INSTALLATION CLEARANCES

These heaters MUST be installed as follows:

- > 12 inches minimum from a vertical surface
- > 24 inches minimum from ANY combustible material
- > 3 inches minimum from the ceiling
- > 36 inches minimum from other heaters



FIRE HAZARD

Serious injury or death may occur.

AWARNING





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

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HEATER INSTALLATION continued

SUSPENSION ALTERNATIVES

Your OCH series heater is shipped complete with hardware for overhead suspension in two different ways.

- 1. In the hardware bag shipped with your heater you will find two adjustable mounting brackets and fastening screws that should be assembled as shown in figure 1. Once assembled to the heater and mounted, these brackets enable the heater to be angled in 15 degree increments up to 45 degrees. The mounting centers for the bracket are shown in figures 1 and 2.
- 2. The heater can also be chain-hung as shown in figure 3. The chain necessary for this alternative is also included with your heater. 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.



requirements on page 3

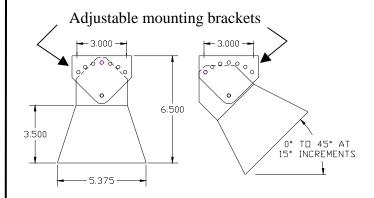


Figure 1: end view

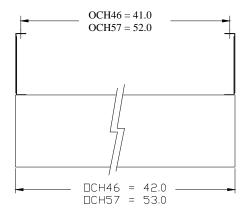


Figure 2: side view

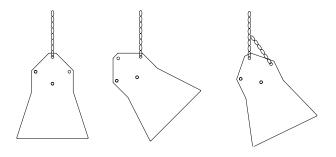


Figure 3: end view

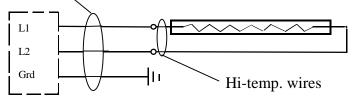
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WIRING

INTERNAL WIRING DIAGRAM

OCH heaters are equipped with two 12 gauge hitemperature silicone lead wires and a ground termination. For field wiring, use 12 ga. 90° C rated wire and connect to the two lead wires in the junction box with wire nuts. Make sure ground wire is properly connected to the fixture's ground terminal located in the junction box.

L1, L2 and GRD from supplied cordset or direct-wired from power supply.



FIELD HARD-WIRING CONVERSION

Some OCH models are factory-equipped with a cordset for portability. You may decide to remove the cordset and wire the heater into a permanent location. Follow the steps below to complete this conversion.

- 1. Remove junction box cover and keep all screws and gaskets.
- 2. Remove wire nuts from black and white leads of cordset.
- 3. Remove ground screw that secures the ground lead from the cordset.
- 4. Loosen strain relief fitting, remove cordset and strain relief fittings from inside and outside the box
- 5. Use ½ inch conduit fittings and conduit for permanent installation.
- 6. Fasten field ground wire to the ground screw and assure tight connection.
- 7. Terminate L1 and L2 field wires to the power wires of the heater with the wire nuts.
- 8. Replace box cover assuring that the gasket is in place. The gasket must be replaced to maintain the outdoor rating of the heater.

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 grounding. Always mate the cordset plug with the proper grounded receptacle in accordance with the National Electric Code and all governing local codes and ordinances.

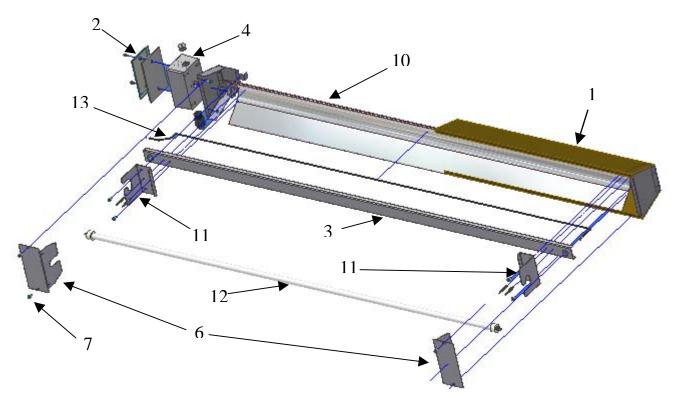
Use only copper wire to power these heaters.

Do not use an extension cord to provide power to these heaters.

Never connect the green or green-yellow wire to a live or "hot" conductor.

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REPLACEMENT PARTS LIST



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	SEE HOUSING TABLE	HOUSING
2	1	8561700	COVER JUNCTION BOX
3	1	8561400	WIRE CHANNEL: OCH-46 series
		8560300	WIRE CHANNEL: OCH-57 series
4	1	3104600	JUNCTION BOX
5	1	SEE CORDSET TABLE	CORDSET / STRAIN RELIEF (not shown)
6	2	8561200	END CAP
7	10	2326500	SCR HWHS #8-32 x 3/8"
8	1	8521500	NIPPLE CHASE (not shown)
9	1	8500739	SPACER (not shown)
10	1	8561800	REFLECTOR: OCH-46 series
		8560400	REFLECTOR: OCH-57 series
11	2	8561100	BRACKET LAMP SUPPORT
12	1	SEE TUBE TABLE	QUARTZ TUBE
13	1	3160618	WIRE ASSEMBLY: OCH-46 series
		3160619	WIRE ASSEMBLY: OCH-57 series
14	1	2466800	HARDWARE PACKAGE: non-SS models
		2466839	HARDWARE PACKAGE: SS models
15	1	3160617	WIRE ASSEMBLY - SHORT (not shown)
16	2	3102200	WIRE NUT (not shown)
17	1	3420367	USER/INSTALLATION MANUAL (not
			shown)

		2466839	HARD
15	1	3160617	WIRE /
16	2	3102200	WIRE I
17	1	3420367	USER/
			shown
MO	DEL		HOUSING P/N
	DEL H-46 S6	eries	HOUSING P/N 8561514
OCI	H-46 Se		8561514
OCI	H-46 Se	eries S Series	
OCI OCI	H-46 Se	S Series	8561514

USE ONLY FOSTORIA QUARTZ TUBES AS FACTORY-SPECIFIED REPLACEMENT PARTS.

VOLTAGE	CORDSET P/N
120V	3110000
208V	3110200
240V	3110100

MODEL	TUBE P/N
OCH-46-120V	04432302
OCH-46-208V	04418102
OCH-46-240V	04418002
OCH-46-277V	04419302
OCH-46-120V-SS	04432302
OCH-46-208V-SS	04418102
OCH-46-240V-SS	04418002
OCH-46-277V-SS	04419302
OCH-57-208V	04416602
OCH-57-240V	04414702
OCH-57-277V	04419402
OCH-57-480V	04419502
OCH-57-208V-SS	04416602
OCH-57-240V-SS	04414702
OCH-57-277V-SS	04419402
OCH-57-480V-SS	04419502
OCH-46-240V-SS OCH-46-277V-SS OCH-57-208V OCH-57-240V OCH-57-277V OCH-57-480V OCH-57-208V-SS OCH-57-240V-SS	04418002 04419302 04416602 04414702 04419402 04419502 04416602 04414702 04419402

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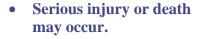
MAINTENANCE

- 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





 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.		

LIMITED WARRANTY

FOSTORIA INDUSTRIES, INC. - P.O. Box 986, Fostoria, Ohio 44830-0986 - (419) 435-9201

The warranty herein set forth is in lieu of all other warranties expressed or matrices. The obligation of Fostoria Industries, Inc. under the terms of this warranty, shall be to implied.

The obligation of Fostoria Industries, Inc. under the terms of this warranty, shall be to supply a new part, repair of defective part, or a refund, at the company's option with no

Fostoria Industries, Inc. of Fostoria, Ohio 44830, warrants its products to the owner against defects in material and workmanship for a twelve (12) month period under normal use and service following date of manufacture or installation when proof of such is provided to seller.

This Warranty requires that the owner, or his agent, install the equipment in accordance with the National Electrical Code, any other applicable heating or electrical codes and the manufacturer's installation instructions. It further requires that he perform reasonable and necessary maintenance on the unit. The company is not liable for abuse or misuse of product as may be finally determined by the company.

The obligation of Fostoria Industries, Inc. under the terms of this warranty, shall be to supply a new part, repair of defective part, or a refund, at the company's option with no cost to owner for the new or repaired part. Such parts are to be returned to the factory, or such other location as the company may designate. This warranty does not obligate Fostoria Industries, Inc. 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, or any other consequential losses. The company's maximum liability shall not in any case exceed the list price for the product claimed to be defective.

The warranty shall not apply to any product or parts of products which have been repaired or altered outside of Seller's factory in any manner. Warranty is void on products that have been determined to have been subjected to misuse, negligence or accident or which have been used in a manner contrary to Seller's instructions.

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