

## **INSTALLATION USE & CARE MANUAL**

### **TABLE OF CONTENTS:**

#### **IMPORTANT INFORMATION**

Assembly Instructions	 2
Wiring Instructions	 2
Outdoor Installation	 2
Electrical Warning	 2

#### **APPLICATION INFORMATION**

Mounting Instructions	
Typical Wiring (Schematics)	
General Notes	
Areas Covered (Table)	
Location Suggestions	

### PARTS LIST

Parts List	 ,
Trouble Shooting Guide	 <i>'</i>
Warranty	 3
Warranty Registration	 3



SAVE THIS MANUAL FOR FUTURE REFERENCE



## ASSEMBLY INSTRUCTIONS – ELECTRIC HEATER

This heater must be permanently installed and hard wired by a licensed electrician. Assembly procedure must be performed with no electrical power to unit. *NOTE: To prevent breakage, unit is shipped without the element installed.* 

- 1. Check UL/CE label on Heater for proper voltage
- 2. Remove two end reflectors.
- Open element clips at each end of the Heater and carefully install the quartz tube. Remove one nut from end of element. Slip on wire over element screw. Replace nut.
   **NOTE:** Hold element ceramic firmly while tightening nut to prevent damage to element. Nut should be tightened snug, a loose connection can cause element to short or fail. Connect other side of element in like manner. Close element clips over tube.
- 4. Replace end reflectors.
- 5. If necessary, clean tube and reflector with alcohol or equivalent.
- 6. Snap on protective grill provided.

WIRING INSTRUCTIONS	OUTDOOR INSTALLATION
1. Remove cover plate from junction box.	<ol> <li>Heater must be mounted with reflector angled down.</li> </ol>
2 Attach conduit.	2. All electrical connections must be in
<ol> <li>Use only copper or aluminum wire suitable for 90°C.</li> </ol>	compliance with the National Electric Code and local codes for outdoor wiring.
4. Replace cover plate.	3. Use only wiring components UL/CE
5. Observe local electrical code regulations.	listed for outdoor use with IP X 4 minimum rating

### A WARNING

Unit may be a source of possible shock.

Unit may be a source of possible ignition, maintain required clearances to all combustibles. Never block the front panel of the Heater.

Do NOT operate within 25 feet of flammable/explosive material. **NEVER attempt to service Heater without disconnecting it's power source.** 

This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.

Young children should be supervised to ensure that they do not play with the appliance. Do not use if the heating element is damaged.

The heater must be installed at least 7' (2.1 mm) above the floor.

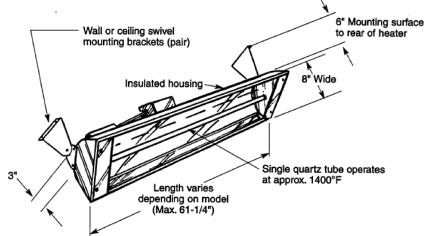
A means for disconnection of the appliance must be incorporated in accordance with the local wiring codes.

## **INSTALLATION INSTRUCTIONS – ELECTRIC HEATER**

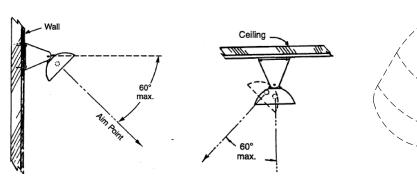
The following information is designed to help you apply and install INFRATECH QUARTZ TUBE ELECTRIC HEATERS in a variety of locations. INFRATECH heaters are one of the most economical of all radiant heaters to buy, and can be some of the least costly to operate. They may also be the most economical to install, depending on the location of electrical power adequate to operate the heater(s) properly.

## MOUNTING INSTRUCTIONS

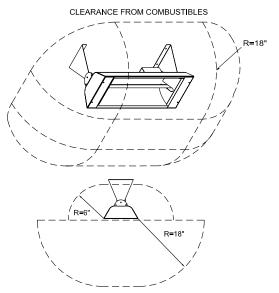
These models may be chain or bracket mounted to any ceiling or horizontal surface. Installation must be such that 18" minimum clearance is maintained around the heater in front of the plane of the face. 6" of clearance provided by Mounting Brackets is required behind the plane of the face.



Wall/ ceiling brackets are furnished with all heaters. Their use is optional. When used, they allow heater to be fastened to wall or ceiling and then tipped up to 60°.



Heater can also be hung in a horizontal position using chains or custom brackets. Heater must be level, but can be rotated around its horizontal axle.



NOTE: DO NOT mount the heater on a vertical axis. Such installation will reduce the life of the element and will automatically void the product's warranty. Heater must be installed with the guartz tube horizontally level. For maximum tube life, use a "carpenters level tool" to find the optimum level position for the heaters' body. and a supering and a supering a supering 6" LEVEL HERE Above 18' 18' Sides Rear Always maintain the minimum clearances from the heater body to any combustible materials. Below Connect power with flexible conduit or appropriate cord to allow heater to be swiveled. The wiring box inlet hole is sized for a standard 1/2" weather tight conduit fitting and has a locknut located on the inside of the box for fastening. **Ground Wire Screw** Wiring box on top of heater has a gasket side access cover. **TYPICAL 220V** WIRING FOR OPTIONAL TYPICAL 115V WIRING WIRING FOR 120V/240V CONTROLS FOR 115V SWITCH **TWO POLE SWITCH** For 115V. Pilot light if used 1 Р 1.1 12 Rear view of Heater 010 Heating element controller for Heater Max. 15 AMF "TOP" marked on rear of control load only. must be installed in an "UP" position. Connect the High Temperature Use a thin 11/32" wrench Stainless Terminal Loops on the to hold inside nut. Nuts wire ends to the element studs 11/32" outside nut must make a tight located on both ends of the  $\overline{a}$ connection. tube. 11/32" inside nut Snug to ceramic

## **GENERAL NOTES:**

- 1. INFRATECH QUARTZ TUBE ELECTRIC HEATERS are furnished with wall/ ceiling mount swivel brackets. These brackets may be discarded when the heater is hung with chains or other special bracketing.
- 2. See sales literature and price list for full listing of models, descriptions, amperages, and voltages. At times, especially when the mounting height must be quite low, an increased number of smaller heaters can help prevent overheating.
- 3. Heaters up to 15 AMPS can be used with a simple INF controller. This low cost controller, which is actually an infinite switch, gently pulses the heat on and off.
- 4. For comfort heating, the best solution is to heat from two sides rather than from just one side. However, there are times when this is not practical.
- 5. Areas covered are approximate dimensions and will vary depending on prevailing conditions and personal comfort levels.

Model	Watts	Mounting Height	Average	Cold	Protected
W1512 SS	'1512 SS 1500 6'-8' 5'		5′ x 5′	3'x 3'	7′ x 7′
W2024 SS	2000	7′ - 9′	6' x 6'	4' x 4'	8' x 8'
W 2524 SS	2500	7′-9′	7′ x 7′	5′ x 5′	9′ x 9′
W 3024 SS	3000	7' - 9'	8' x 8'	6' x 6'	10' x 10'
W 4024 SS	4000	8'-11'	10' x 10'	8′ x 8′	12'x 12'

### Single Element AREAS COVERED (feet)

Dual Element AREAS COVERE	D (feet)
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Model	Watts	Mounting Height	Average	Cold	Protected
WD 4024 SS	4000	8'-12'	10 x 8′	8′ x 6′	12′ x 10′
WD 5024 SS	5000	8′-12′	10′ x 9′	8′ x 7′	12′x 11′
WD 6024 SS	6000	10' - 14'	11′x 11′	10′ x 10′	12′ x 12′

NOTE: Indoor or well-protected environments will generally exceed average. Heaters can provide less than average coverage in extremely cold/windy conditions.

## REPLACEMENT PARTS LIST – ELECTRIC HEATER

Part Number	Part Description	Qty
13-1210	Single Element End Reflector Set (2 pcs)	1
13-1252	Dual Element End Reflector Set (2 pcs)	1
13-1202	W 10 Body Reflector	1
13-1200	W 20 Body Reflector	1
13-1205	W 30 Body Reflector Set (2 pcs)	1
13-1242	W 10 Safety Grill	1
13-1240	W 20 Safety Grill	1
13-1245	W 30 Safety Grill	1
13-1232	Lead Wire Set 33" Fixture (2 pcs)	1
13-1230	Lead Wire Set 39" Fixture (2 pcs)	1
13-1235	Lead Wire Set 61" Fixture (2 pcs)	1
22-1151	S.S. Mounting Bracket Set (2 pcs)	1
18-2300	39" Heater Flush Mount Plaster Frame	1
18-2305	61" Heater Flush Mount Plaster Frame	1
Consult back of heater for proper Watts and Voltage	Replacement Element	1

## **TROUBLESHOOTING GUIDE – ELECTRIC HEATER**

PROBLEM	WHAT TO DO
Heater does not glow.	Check supply voltage to confirm it matches voltage of heating element.
Low heat output	A 240 V element connected to 110 V or 208 V will warm, but not glow orange, or generate sufficient heat for typical applications. (Matching your Voltage is extremely important) If element is visibly orange, but there is insufficient heat, refer to the areas covered, with respect to conditions and mounting heights. Replace or clean dirty or non reflective reflectors.
Heater does not work	Disconnect power and check element with Ohm meter for continuity. If there is any continuity across the bulb, the problem is in the wiring/controls. Check that there is proper voltage to the heater. Check that the control/switch is working. Check main power circuit breaker. Check wiring for a loose connection or burned wire.

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# 888-Warm-Glo

## LOCATION SUGGESTIONS

Unless heaters are installed over 12 ft. high, it is generally recommended that all radiant heaters be mounted on an angle to assure that radiant warmth is distributed from the sides rather than straight down on the heads and shoulders of the people being warmed.



When outdoors, hang heater under protective roof or weather cover whenever possible. Even though heater is all-weather construction, it will last longer and look better if it is protected from rain and snow.

#### RECOMMENDED

30° to 60° from horizontal face down. Best angle is approximately 45°.





Install fixture to heat the area from the "cold side" if possible. This helps compensate for increased body heat losses due to exposure. Warm floors reradiate heat. Warmer air rises from floor. Some heat reflects from floor. Mounting a heater directly over a table or other obstruction will block the energy, primarily heating the object. It is best to move heater to the side, allowing complete body and floor coverage.

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Phone #

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### LIMITED PRODUCT WARRANTY

Model:		Serial No:
Date of Purch	ase:	Purchased From:
We have designed serial number safe enjoymer with any famil <b>Manufacture</b> <i>INFRATECH</i> was	ned this heater to provide y as well as date of purchase int of your electric heater plea ly members that may be usir <b>r Warranty:</b> arrants that this electric heater year from original date of pu	er is designed and manufactured to be free from defects in materials and workmanship for a
This warranty time of purcha require that ye	extends to the selling dealer ase and ends either by speci ou send in the attached warr d to send you important safe	rs to the original purchaser at the original site of installation: This warranty becomes valid at the fied time frame listed above, owner transfer or relocation. In order to activate the warranty we ranty registration form. This registration is for our internal use only and will only be used in the ety related product information. The information will not be sold or used for any marketing
Warranty Lim This warranty installation or (i.e. cleaning p shall <i>INFRATEC</i> <b>Important: P</b> Any implied w express writte also apply. Tit merchandise t the shipper of	hitations and Exclusions: does not apply to damages improper operation, unauth products improperly applied CH or any of its representative rease retain original proof varranties of merchantability on warranty. This warranty gri- tle to the merchandise passe travels at the risk of the purc	resulting from negligence, alteration, misuse, abuse, accident, natural disaster, improper norized adjustments or calibrations, dings, dents, scratches, nor damages due to harsh chemicals ). Warrantor is not responsible for consequential or incidental damages. Under no circumstances res be held liable for injury to any person or damage to any property, however arising. <b>Fof purchase to establish warranty period.</b> And fitness applicable to the equipment are limited in duration to the period of coverage of this rants specific legal rights to the purchaser. Other rights, which may vary from state to state, may so to the consignee upon acceptance by the carrier. After acceptance by the carrier, the chaser. In the event of freight damage, do not refuse shipment. Advise both the freight agent and hils of that damage on the freight bill before any freight charges are paid and file a claim for
8 INFRATECH	800-421-9455	INFRATECH сомгопт West 157th Street, Gardena, CA USA 90248 • FAX 310-523-3674 • www.infratech-usa.com
	C	Dne-Year Warranty • Made in U.S.A.
	INFF	RATECH Warranty Registration
Customer N	lame	Model #
Address		Serial #
City		Date Purchased
Zip		Dealer's Name

e-mail: This Warranty Registration Card must be returned within thirty days of purchase to properly activate your warranty. This information is for our internal use only.

Dealer's Address