

INSTALLATION USE & CARE MANUAL

ALL WEATHER SL-SERIES QUARTZ TUBE ELECTRIC INFRARED RADIANT HEATER



TABLE OF CONTENTS	
Warnings	2
Installation Instructions	3
Wiring Instructions	3
Mounting Instructions	4 - 5
Replacement Element Installation	5
Replacement Parts	5 - 6
Heater Coverage Areas	6
General Notes	6
Maintenance Instructions	6
Trouble Shooting	7
Location Suggestions	7
Warranty	8





WARNINGS

READ ALL INSTRUCTIONS BEFORE USING HEATER

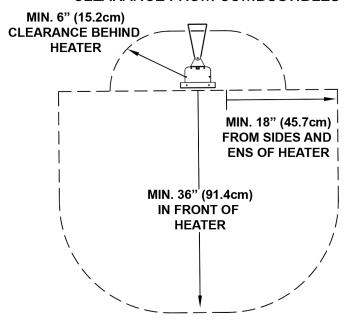
Unit may be a source of possible shock. NEVER attempt to service heater without disconnecting its power source. Source of possible ignition.

CAUTION

High Temperature, risk of fire, keep electrical cords, drapery, furnishings and other combustibles at least 3' (0.9m) from the front of heater and away from sides and rear.

MOUNTING HEIGHT/CLEARANCES

CLEARANCE FROM COMBUSTIBLES



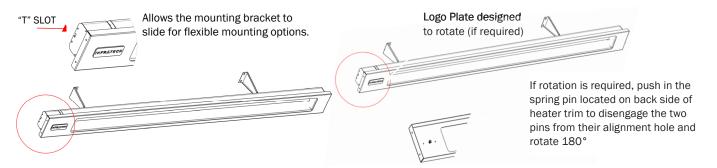
- For Wall-Mounting, do not install heater closer than 18" (45.7cm) from adjacent walls and 6" (15.2cm) from ceiling and do not install less than 6' (1.8 m) if the heater is labeled as UL Listed and 8' (2.4m) if the heater is labeled as UL/CUL Listed from floor, while heater is set at a downward angle of 30 to 60 degrees.
- For Ceiling-Mounting, do not install heater closer than 18" (45.7cm) from adjacent walls and 6" (15.2cm) from ceiling and do not install less than 6' (1.8 m) if the heater is labeled as UL Listed and 8' (2.4m) if the heater is labeled as UL/CUL Listed from floor, while heater is at a maximum 30 degrees.
- Adjacent Heaters to be installed no less than 3' (0.9 m) apart.
- Do NOT operate within 25' (7.6m) of flammable/explosive material.
- · Never block heater.
- Heaters greater than 240V are for "Commercial Use Only. Risk of fire. Do not use as a residential or household heater."
- A means for disconnection of the appliance must be incorporated in accordance with the local wiring codes.
- Do not use if the heating element is damaged or cracked.

"IMPORTANT INSTRUCTIONS"
"SAVE THESE INSTRUCTIONS"

INSTALLATION INSTRUCTIONS

This heater must be permanently installed and hard wired by a licensed electrician in accordance with local electrical codes. Assembly procedure must be performed with no electrical power to unit.

- Step 1: Check UL/CUL/CE label on heater for proper voltage.
- Step 2: Follow supplied wiring instructions. (See wiring instructions below)
- Step 3: Heater must be mounted with reflector angled down.
- Step 4: All electrical connections must be in compliance with the National Electric Code (NEC) and local codes for outdoor wiring.
- Step 5: Use only wiring components UL/CUL/CE listed for outdoor use with IPX4 minimum rating.



WIRING INSTRUCTIONS

The heater is drilled and threaded for standard ½" conduit fittings. The installing electrician will need to provide the appropriate rigid metallic, flexible or liquid tight conduit for the installation.

TYPICAL WIRING OPTIONS

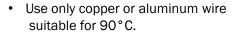
TYPICAL 120V WIRING

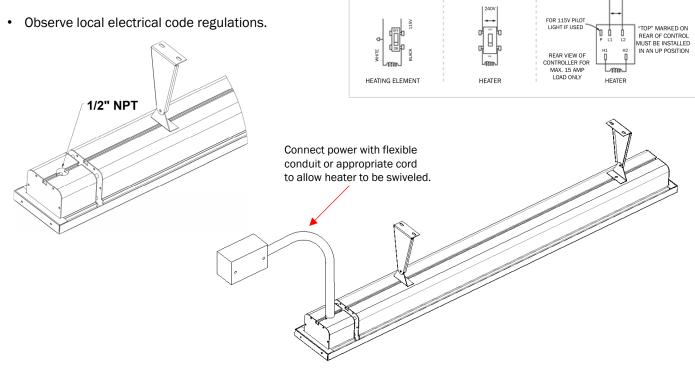
FOR A SINGLE POLE SWITCH

TYPICAL 240V WIRING FOR

A TWO POLE SWITCH

WIRING FOR OPTIONAL 120V/240V CONTROLS





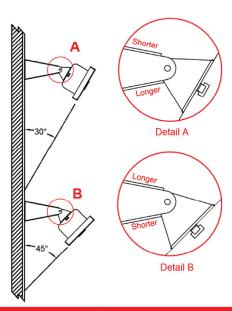
BRACKET SPACING

Adjustable wall/ceiling brackets are furnished with all SL-Series Heaters. Brackets have positive stops at 30° and 45°. Brackets are positioned along a "T" slot on back of unit. You must maintain a minimum distance between the mounting brackets to ensure a stable installation.

MODEL	MIN. SPACING BETWEEN BRACKETS	
SL 16XX	12" (30.5cm)	
SL 24XX	20" (50.8cm)	
SL 30XX	30" (76.2cm)	
SL 40XX	30" (76.2cm)	

SL-Series Brackets are designed for two positive stop positions. The Heater can be hung in a horizontal position using chains or custom brackets. The Heater must be level, but can be rotated around its horizontal axis.

PRIOR TO INSTALLING HEATERS, PLEASE READ BELOW FOR OPTIONAL MOUNTING ANGLES.



Shallow Angle

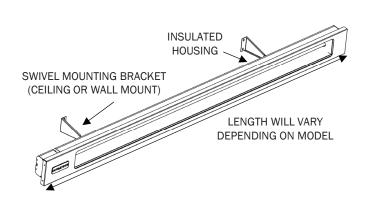
For a Shallow Angle Installation (30° off the wall) mount both brackets with the "longer length stop" positioned on the bottom.

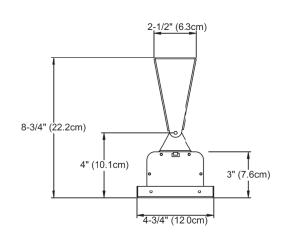
Steeper Angle

For a Steeper Angle Installation (45° off the wall) mount both brackets with the "shorter length stop" positioned on the bottom.

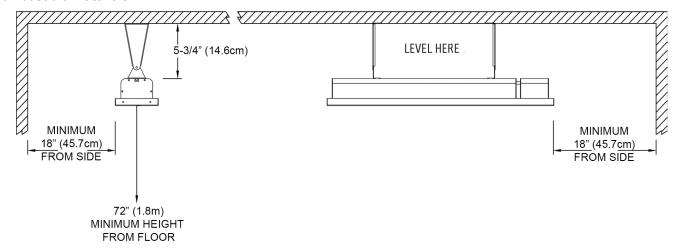
MOUNTING INSTRUCTIONS

These models may be chain or bracket mounted to any ceiling or horizontal surface. Installation must be such that 18" (45.7cm) minimum clearance is maintained around the heater on all 4 sides and 36" (.09m) directly in front. A minimum of 6" (15.2cm) of clearance provided by mounting brackets is required behind the plane of the face.





Heater must be installed with the quartz tube horizontally level. For maximum tube life, use a level to find the optimum position for the heater's body. Always maintain the minimum clearances from the heater body to any combustible materials.

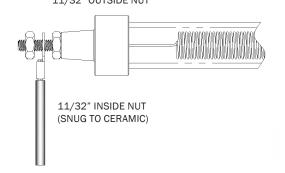


REPLACEMENT ELEMENT INSTALLATION

(Visit infratech-usa.com for video instructions)

Disconnect power at the breaker. Remove two screws from one end of trim and slide trim off opposite end. Remove grill by grasping it in the middle, flex grill up and lift it off. Unscrew and remove both end reflectors. Unhook element clips at each end of the heater and remove nuts from end of element to remove the existing quartz tube. Carefully install the new element. Remove one nut from end of the new element. Install wire by sliding high temperature ring terminal onto element screw and replace nut. Use a thin 11/32" wrench to hold inside nut. Nuts must make a tight connection. Close element clips over tube and reinstall end reflectors, and snap protective grill back in, then reinstall trim.

NOTE: Hold ceramic element firmly while tightening nut to prevent damage to element. Nut should be tightened snug. A loose connection can cause the element to short or fail prematurely.





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PART#	ELEMENT#	LENGTH	WATTS VOLTS	FITS MODELS
10-7025	E-1612-SL	22-3/8" (0.6m)	1600 120	SL-1612
10-7030	E-1624-SL	22-3/8" (0.6m)	1600 240	SL-1624
10-7035	E-2424-SL	35-3/8" (0.9m)	2400 240	SL-2424
10-7040	E-2428-SL	35-3/8" (0.9m)	2400 208	SL-2428
10-7055	E-3024-SL	56-3/8" (1.4m)	3000 240	SL-3024
10-7060	E-3028-SL	56-3/8" (1.4m)	3000 208	SL-3028
10-7075	E-4024-SL	56-3/8" (1.4m)	4000 240	SL-4024
10-7080	E-4028-SL	56-3/8" (1.4m)	4000 208	SL-4028

Consult label on back of heater for proper watts, voltage, and replacement part number.

Need help? To order replacement elements for your Infratech heating system, please contact us via phone or visit our website.

REPLACEMENT PARTS		
PART #	PART DESCRIPTION	QUANTITY
13-7008	End Reflector (Set of 2)	1
13-7004, 13-7002, 13-7000	Body Reflector Fits - (SL 16), (SL 24), (SL 30/40)	1
13-7034, 13-7032, 13-7030	Lead Wire Set - Fits (SL 16), (SL 24), (SL 30/40)	1
13-7020, 13-7022, 13-7023	Mounting Bracket (Set of 2) (Stainless Steel, Bronze, Black)	1
13-7014, 13-7012, 13-7010	Grill Guard (SL 16), (SL 24), (SL 30/40)	1
13-7028, 13-7026, 13-7024	Stainless Steel Trim (SL 16), (SL 24), (SL 30/40)	1
13-7028BL, 13-7026BL, 13-7024BL	Black Trim (SL 16), (SL 24), (SL 30/40)	1

HEATER CO	HEATER COVERAGE AREAS				
MODEL	WATTS	MOUNTING HEIGHT	AVERAGE	COLD	PROTECTED
SL 1624	1,600	6' - 8' (1.8m - 2.4m)	6' x 6' (1.8m x 1.8m)	4' x 4' (1.2m x 1.2m)	8' x 8' (2.4m x 2.4m)
SL 2424	2,400	7' – 9' (2.1m - 2.7m)	7' x 7' (2.1m x 2.1m)	5' x 5' (1.5m x 1.5m)	9' x 9' (2.7m x 2.7m)
SL 3024	3,000	7' – 9' (2.1m - 2.7m)	8' x 8' (2.4m x 2.4m)	6' x 6' (1.8m x 1.8m)	10' x 10' (3.0m x 3.0m)
SL 4024	4,000	8' - 11' (2.4m - 3.4m)	10' x 10' (3.0m x 3.0m)	8' x 8' (2.4m x 2.4m)	12' x 12' (3.7m x 3.7m)

GENERAL NOTES

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.

See sales literature and price list for full listing of models, descriptions, amperages, and voltages. At times, especially when the mounting height might be quite low, an increased number of smaller heaters can help prevent overheating.

Heaters up to 15 AMPS can be controlled with a simple INF controller. This low cost controller, which is actually an infinite switch, gently pulses the heat on and off at regular intervals when not on full power.

Ideal for comfort heat, the best solution is to heat from two sides rather than from just one side. However, there are times when this is not practical.

Areas covered are approximate dimensions and will vary depending on prevailing and personal comfort levels.

Indoor or well-protected environments will generally exceed average (see charts). Heaters can provide less than average coverage in extremely cold/windy conditions.

MAINTENANCE INSTRUCTIONS

Before performing any maintenance, power must be disconnected and the heater cool to touch.

Heater housing, reflectors, and heating element can be rinsed with a hose or wiped down with isopropyl alcohol, acetone, or glass cleaner. Use a clean, scratch-free rag or paper towel. Any oxidation, surface rust, or discoloration can be removed with a stainless steel cleaner or metal polish on the bare metal surface.

Make sure all water, solvents, or cleaners are removed and the heater is dry before reconnecting the power.

TROUBLESHOOTING

PROBLEM

WHAT TO DO

Heater does not glow

Check supply voltage to confirm it matches voltage of heating element.

Low heat output Heater

- A 240V element connected to 110V or 208V 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.

LOCATION SUGGESTIONS

Unless heaters are installed over 12' (3.7m) 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.



OUTDOORS

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 POSITIONING

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



INSTALLATION DIRECTION

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.



LIMITED PRODUCT WARRANTY					
Model #:	Serial #:				
Date of Purchase:	Purchased Fro	om:			
Thank you very much for purchasing a INFRATECHWe have designed this heater to provide you and in the Model and Serial number as well as date of for future reference. To get the full and safe enjoy carefully and review the proper operating and safe heater. Manufacturer Warranty: INFRATECH warrants that this electric heater is downwarranty extends to the selling dealers to the becomes valid at the time of purchase and ends or relocation. In order to activate the warranty we recregistration is for our internal use only and will on product information. The information will not be surranty Limitations and Exclusions: This warranty does not apply to damages resulting disaster, improper installation or improper operat scratches, nor damages due to harsh chemicals (is responsible for consequential or incidental damages representatives be held liable for injury to any per Important: Please retain original proof of purchas Any implied warranties of merchantability and fith of coverage of this express written warranty. This which may vary from state to state, may also apply acceptance by the carrier. After acceptance by the event of freight damage, do not refuse shipment. the details of that damage on the freight bill befor freight agent. ©2008 INFRATECH	your family with many years of greating from negligence, alteration, unauthorized adjustments or dise. Cleaning products improperly a ges. Under no circumstances shall reson or damage to any property, how e to establish warranty period. The to the merchandise travels a Advise both the freight agent and re any freight charges are paid and re any freight and re any freight are any freight and re any freight are any freight and re any freight and re any freight are any freight and re any freight are any freight and re any freight are any freight are any freight and	bove. Please save this information e read this Owner's Manual imbers that may be using the ee from defects in materials and site of installation: This warranty d above, owner transfer or d warranty registration form. This is send you important safety related the purposes. se, abuse, accident, natural calibrations, dings, dents, pplied). Warrantor is not INFRATECH or any of its owever arising. re limited in duration to the period is to the purchaser. Other rights, to the consignee upon at the risk of the purchaser. In the the shipper of the damage. Note file a claim for damages with the			
INFRATECH WARRANTY REGISTRATION					
Customer Name:					
Address:					
City:					
Phone:	E-mail:				
Model #:	Serial #:				

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.

_____ Date Purchased:_



Dealer's Name:_

Dealer's Address: