

HEAT CONTROLLER

# INSTALLATION & OPERATION MANUAL

## Radiant Infrared Electric Heater IR30S and IR60S

SPECIFICATIONS			
MODEL	VOLTAGE	TOTAL POWER (WATTS)	CURRENT (AMPS)
IR30S	208/240-1-60	2250/3000	10.8 / 12.5
IR60S	208/240-1-60	4500/6000	21.6 / 25.0

**FOR OUTDOOR COMMERCIAL USE ONLY**  
IP65 Rated for Wet Conditions





## WARNINGS



**This electric appliance produces infrared heat, and failure to follow warnings and instructions can cause a fire, electric shock, or injury.**

**This heater is designed for outdoor commercial use only.**

**READ AND SAVE THESE INSTRUCTIONS!**

### **WARNING FIRE OR EXPLOSION HAZARD**

- Failure to follow safety warnings exactly could result in serious injury or property damage.
- Do not use gasoline or other flammable vapors or liquids, including aerosol cans, in the vicinity of this heater while it is operating.
- Do not store or use any of the following flammable materials on or near the heater, or allow them to come in contact with the unit: rags, fabric, spray or aerosol cans, cleaning compounds, plastics or plastic containers, paper products, gasoline, kerosene, lighter fluid.
- Do not install the heater close to furniture, curtains or other flammable items. Allow at least 6 feet (1.8 meters) between all sides of the heater and flammable items.
- Do not cover or otherwise obstruct the heater.
- Do not use heater without wire guard in place.

### **WARNING PERSONAL INJURY HAZARD**

- Do not touch the heater during operation. Burn or scald injury could result. The casing and components are extremely hot during operation.
- Keep children away from the heater. Never leave an unsupervised child near the heater.
- Because of injury risk, the heater should be operated only by individuals knowledgeable about the operation and familiar with the warnings and cautions listed in this manual.
- Because of injury risk, this heater is not intended for use by persons with reduced physical, sensory or mental capabilities.
- Heater is not for use in bathrooms, laundry areas or other locations where unit could fall into a body of water.

### **WARNING PERSONAL INJURY HAZARD—SERVICE**

- To avoid property damage, personal injury or death due to electrical shock, do not service the unit without first turning the unit OFF and disconnecting the wired circuits from the main power supply.
- Allow adequate time for the unit to cool down completely.
- Service must be performed only by a qualified service technician.
- Do not use the heater if the power cord is damaged. Contact an authorized service technician or qualified electrician to replace the cord prior to use.
- Do not use heater if it has been dropped or damaged in any way, until it has been inspected by an authorized service facility.
- When cleaning heater or replacing emitter, disconnect wired circuits from the power supply. Be sure heater and/or emitter has cooled completely, before handling.

### **WARNING INSTALLATION & USE**

To avoid property damage, personal injury or death due to electrical shock, follow all instructions in this Installation and Operation manual.

- Specified minimum clearances from front, sides, bottom and back of unit must be met. Failure to meet clearance minimums can result in fire.
- Heater must be installed by a certified electrician and must adhere to all local, state and national electric codes (NEC).
- Heater must be grounded and hard wired.
- Keep the power cable away from body of heater. Do not use heater if power cord is damaged.
- Do not insert or allow foreign objects to enter any of the heater openings. Electrical shock could result.
- Never leave the heater unattended while it is operating.

## INTRODUCTION

Heat Controller's infrared heater produces radiant heat that warms people and objects rather than the air surrounding them. The heater can be mounted on a wall or ceiling, and adjustable brackets allow the heat to be directed where desired.

**This heater is designed for outdoor commercial use only.**

## ELECTRICAL INSTALLATION

**WARNING: To assure safe operation, installation must be done by a certified electrician and must adhere to local, state and national electrical codes.**

**Use a certified ground fault protection device for wet environment installations.**

1. Supply voltage must correspond to the voltage indicated on unit's rating plate.
2. The cord from each terminal box must be hard wired and properly grounded.

**WARNING: Each power supply circuit must be provided with a means of disconnection, and the disconnecting means must be grouped.**

MINIMUM CLEARANCE DISTANCES FROM...			
MODEL	FLOOR	CEILING	ADJACENT WALLS
IR30S	8' (2.44 m)	1' 8" (.51 m)	36" (.91 m)
IR60S	10' (3.05 m)	1' 8" (.51 m)	48" (1.22 m)

## WALL-MOUNTED INSTALLATION

**WARNING: Observe minimum clearances shown in chart above.**

1. Securely fasten the L-shaped brackets to the mounting surface using both of the fixing holes in the short part of the bracket. NOTE: Wall bolts are not supplied: select an appropriate size to provide adequate support for the weight of the unit and taking into consideration any wind load conditions.

**CAUTION: If there is any question about security of bolts and fixings, contact a professional contractor.**

2. Mount the heater to the brackets with the terminal box at the bottom of the heater.
3. Adjust the heater to the desired directional angle, then fix in this position by tightening the fixing bolts on the brackets at the rear of the heater.

**CAUTION: Do not position the heater at an angle greater than 50° or less than 30°.**

4. Secure the electrical supply cable so it does not come in contact with the heater body or obstruct the air vents. Follow local and national electrical code requirements.

## CEILING-MOUNTED INSTALLATION

**WARNING: Observe minimum clearances shown in chart at left.**

1. Heater should be hung using non-flexible mounting brackets (not supplied). Select brackets that will maintain a minimum clearance of 1' 8" (.51 m) from the ceiling.
2. Bolts and fixings (not supplied) should be of an appropriate size to provide adequate support for the weight of the unit and any additional load resulting from wind conditions.

**CAUTION: If there is any question about security of bolts and fixings, contact a professional contractor.**

3. Secure the heater to the mounting brackets with the heater facing directly down.
4. Secure the electrical supply cable so it does not come in contact with the heater body or obstruct the air vents. Follow local NEC code requirements.

## ADJUSTING DIRECTIONAL POSITIONING

**WARNING! Never attempt to move heater while it is operating. Personal injury could result.**

1. Power to the heater from the main supply must be OFF to adjust the position. (Turn off circuit breaker.)
2. Allow the heater to cool completely, before re-positioning the angle.
3. Loosen the fixing bolts on the brackets at the rear of the heater; re-position heater as desired, then re-tighten the fixing bolts.

**CAUTION: Do not position the heater at an angle greater than 50° or less than 30°.**

## MAINTENANCE

There are only two maintenance procedures which can be done on location: cleaning the unit and replacing the emitter. Return the heater to an authorized service facility for any other electrical or mechanical adjustment or repair, including replacement of a damaged power cord.

Should the heater be dropped or damaged, or malfunction at any time, immediately turn off the main power source and do not use heater until it has been examined by an authorized service facility.

## CLEANING

To remove dust or dirt on the reflector, follow these steps: Always make sure the unit has cooled completely, before performing any maintenance.

1. Turn the power switch OFF and disconnect heater from the main power supply.
2. Remove the wire guard and carefully wipe the reflector with a soft, lint-free cloth.

**CAUTION: Do not touch the emitter. Finger marks will burn into the quartz emitter during use and cause premature heater failure.**

If emitter is inadvertently touched, or if it needs to be cleaned, carefully wipe it using rubbing alcohol or methylated spirits.

## REPLACING EMITTER

Contact your distributor for the correct replacement emitter, providing the model number and rating from the rating label. Not using an exact replacement emitter can cause the heater to fail.

**IMPORTANT:** Read through the emitter replacement procedure below before beginning the replacement.

**CAUTION: Do not touch emitter with bare hands. Wearing soft cotton gloves is highly recommended.**

1. Turn OFF power switch and disconnect from main power supply (circuit breaker).
2. Be sure the heater and emitter are cool completely; burns can result from touching hot components.
3. Remove the screws from the end of the heater fixture and remove the aluminum end cap.
4. Carefully slide the perforated front grille immediately adjacent to the end cap off the end of the unit.
5. Carefully slide the protective grille to the end of the heater to expose the emitter and silicone sealing connectors.
6. Carefully remove the emitter and silicone wire connectors from the aluminum emitter clips, freeing the wire/connector system.
7. Carefully remove the silicone terminal connectors from the ends of the emitter. Be careful not to break the emitter terminal end inside the silicone wire connector. Discard the used emitter.
8. Holding the new emitter by the ceramic ends OR wearing clean dry gloves, place the silicone terminal connectors onto the new emitter and re-clip it into the emitter holder.
9. Carefully slide the protective grille and perforated end cap into place, and replace screws.

## Limited Express Warranty

### Comfort-Aire® Infrared Heaters

#### **COMMERCIAL INSTALLATION/USE: LIMITED ONE (1) YEAR PARTS EXPRESS WARRANTY**

Heat Controller warrants all parts of the Infrared Heaters to be free from defects in workmanship and materials for normal commercial use and maintenance for one (1) year from the date of purchase by the original consumer.

The Express Limited Warranties described above apply only when the Infrared Heater is installed and operated per Heat Controller installation and operating instructions for normal use.

#### **EXCEPTIONS**

The Limited Express Warranty does not cover normal maintenance—Heat Controller recommends that regular inspection/maintenance be performed according to the Installation and Operation Manual. Additionally, labor charges, diagnostic charges, transportation charges for replacement parts, or any other service calls/repairs are not covered by this Limited, and are the responsibility of the user. It also does not cover any portion or component of the system that is not supplied by Heat Controller, regardless of the cause of failure of such portion or component.

#### **CONDITIONS FOR WARRANTY COVERAGE**

- Unit must be operated according to Heat Controller operating instructions included with the unit and cannot have been subjected to accident, alteration, improper repair, neglect or misuse, or an act of God (such as a flood)
- Installation must be according to Heat Controller installation instructions
- Rating plate has not been altered or removed
- Unit is not operated in a corrosive environment
- Performance cannot be impaired by use of any product not authorized by Heat Controller, or by any adjustments or adaptations to components
- Damage has not been a result of inadequate wiring or

voltage conditions, use during brown-out conditions, or circuit interruptions

- Unit was not purchased over the internet.

#### **DURATION OF WARRANTY & REGISTRATION**

The warranty begins on the date of purchase by the original consumer. The consumer must register the product purchase at [www.heatcontroller.com](http://www.heatcontroller.com) within 90 days of purchase. The consumer must retain a receipt or bill of sale as proof of warranty period. Without this proof, the express warranty begins on the date of shipment from the factory.

#### **REMEDY PROVIDED BY THE LIMITED EXPRESS WARRANTY**

The sole remedy under the Limited Warranty is replacement of the defective part. If replacement parts are required within the period of this warranty, Heat Controller replacement parts shall be used; any warranty on the replacement part(s) shall not affect the applicable original unit warranty. Labor to diagnose and replace the defective part is not covered by this Limited Express, and is the responsibility of the user. If for any reason the replacement part/product is no longer available during the warranty period, Heat Controller shall have the right to allow a credit in the amount of the current suggested retail price of the part/product instead of providing repair or replacement.

#### **LIMITATION OF LIABILITY**

1. There are no other express or implied warranties. Heat Controller makes no warranty of merchantability. We do not warrant that the unit is suitable for any particular purpose or can be used in buildings or rooms of any particular size or condition except as specifically provided in this Installation and Operation document. There are no other warranties, express or implied, which extend beyond the description in this document.

**WARRANTY CONTINUED ON PAGE 6**

2. All warranties implied by law are limited in duration to the one-year term of the Parts Warranty. Your exclusive remedy is limited to the replacement of defective parts. **We will not be liable for any consequential or incidental damages caused by any defect in this unit.**
3. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow limitation on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.
4. No warranties are made for units sold outside the continental United States and Canada. Your distributor or final seller may provide a warranty on units sold outside these areas.
5. Heat Controller will not be liable for damages if our performance regarding warranty resolution is delayed by events beyond our control including accident, alteration, abuse, war, government restrictions, strikes, fire, flood, or other acts of God.

**HOW TO OBTAIN WARRANTY SERVICE OR PARTS**

If you have a warranty claim or service question, contact Heat Controller at 517-787-2100. Have the model number and date of purchase available for this call. Do not return your unit to the store where it was purchased.

**Owner responsibilities are set forth in the instruction manual—read it carefully.**

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Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice and without incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

# HEAT CONTROLLER

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A **WELPS** Company