Reference Manual

Solaira **ICR Series H1**

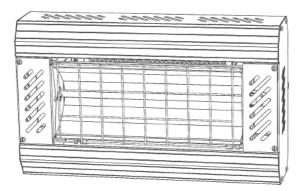
SINGLE EMITTER **CANADA & USA MODELS:**

STANDARD & CANDEL

SICR15120-C & SICR15120LL-C 1 × 1500W, 120V

SICR15240-C & SICR15240LL-C 1 × 1125 / 1500W, 208 / 240V (SINGLE PHASE) SICR20240-C & SICR20240LL-C 1 × 1500 / 2000W, 208 / 240V (SINGLE PHASE)

C = COLOR CODE



SHORTWAVE INFRARED HEATERS FOR OUTDOOR AND INDOOR USE -**RESIDENTIAL*, COMMERCIAL AND INDUSTRIAL**

IN NON-HAZARDOUS LOCATIONS A A

*2000W heater is not suitable for indoor residential or household use.



INFORESIGHT CONSUMER PRODUCTS INC.

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A IMPORTANT - SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE





When using electrical INFRARED HEATERS, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read all instructions before using this heater.

- 2. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- 3. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains at least 6 feet (1.8m) from the front of the heater and keep them away from the sides and rear.
- 4. Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- 5. Always unplug the 120 volt heater when not in use.
- 6. Do not operate any heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Return heater to authorized service facility for examination, electrical or mechanical adjustment, or repair.
- 7. This heater must not be used in bathrooms, laundry areas and similar locations.
- 8. Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or the like. Arrange cord away from traffic area and where it will not be tripped over.
- 9. To disconnect heater, remove the 3-pin 120 volt plug. If hard wired switch off breaker. Connect to grounded CFI outlets only.

IMPORTANT INSTRUCTIONS

- 10. Connect to properly grounded outlets only.
- 11. Do not insert or allow foreign objects to enter any opening as this may cause an electric shock or fire, or damage the heater.
- 12. To prevent a possible fire, do not block openings in any manner.
- 13. A heater has hot parts inside. Do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
- 14. Avoid the use of an extension cord because the extension cord may overheat and cause a risk of fire.
- 15. Do not cover or otherwise obstruct the heater.
- 16. Do not touch the heater during operation as the body becomes hot and could causes burns. Particular attention has been given where children and vulnerable people are present.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

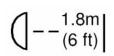
For 120 volt heaters. The cord has a 3-pin grounded plug.

For 240 (or 208) volt heaters. The cord must be hard wired.

WARNING: RISK OF FIRE

Keep combustible material such as furniture, papers, clothes and curtains at least 6 feet (1.8m) from the front of the heater and away from the sides and rear. Do not use the 240 volt 2 kilowatt heater as an indoor residential or household heater.







INTRODUCTION

The Solaira ICR H1 heater produces radiant heat like the sun, warming people and objects rather than the air in between. It is mounted on an adjustable bracket that allows the heat to be directed exactly where it is required. The Solaira ICR H1 heater is designed for outdoor and indoor use.

Please read the following instructions carefully before use. The safety of this heater is guaranteed only by its correct usage in accordance with these instructions, therefore they should be retained for future reference.

CAUTION

Before using this appliance:

- 1. Check that the voltage indicated on the units rating label corresponds to the mains supply voltage.
- 2. Do not install the heaters less than the minimum height from the floor, distance to ceiling and distance to side walls as specified in Table. 1.
- 3. Ensure that the heater has been securely fastened in its final mounting position.
- 4. WARNING This appliance must be grounded!
- 5. **WARNING** Keep the mains cord away from the body of the heater.
- 6. If a socket outlet is used do not position the outlet immediately above or behind the heater.
- 7. Avoid the use of an extension cord with this product.
- 8. Do not cover or obstruct the heater at any time.
- 9. Do not insert any object through any slot or opening in the heater.
- 10. Do not use if guard is not present.
- 11. WARNING When replacing the emitter or cleaning the unit, ensure that the 3-pin 120 volt plug is removed from its socket outlet or if hard wired the circuit is disconnected from the mains supply. NOTE: ALWAYS ENSURE THAT THE EMITTER IS COOL BEFORE HANDLING.
- 12. Do not handle the halogen emitter with bare hands. If it is inadvertently touched, remove finger marks with a soft cloth and methylated spirit or rubbing alcohol. Otherwise, the marks will burn into the quartz emitter during use causing premature heater failure.



- 13. The heater is not intended for use by young children and must be supervised by a responsible person at all times.
- 14. Always remove the 3-pin 120 volt plug on the 120 volt heater if it is not being used.

SPECIFICATION Table 1. Canada and USA Heaters

Model Types	SICR15120-C &	SICR15240-C &	SICR20240-C &
	SICR15120LL-C	SICR15240LL-C	SICR20240LL-C
Voltage	120 V 208 / 240 V		
Total Power	1500 W	1125 / 1500 W	1500 / 2000 W
Current	12.5 A	5.4 / 6.3 A	7.2 / 8.3 A
Min. mounting height from floor	79 in (201 cm)		
Min. distance from ceiling	6 in (15 cm)		
Min. distance from side wall	39 in (100 cm)		
Dimensions - W × H × D	16½ in × 10 in × 4½ in (42 cm × 26 cm × 12 cm)		
Weight	6.6 lbs (3.0 kg)		

▲ WARNING - RISK OF FIRE: Do not use the 240 volt 2 kilowatt heater as an indoor residential or household heater.

INSTALLATION

The 120V version of the heater is fitted with 15 feet (5.0m) of supply cable and a molded 3 - pin 15 amp plug.

The 208/240V versions of the heaters are fitted with 6 feet, 7 inches (2.0m) of supply cable for hard wiring.

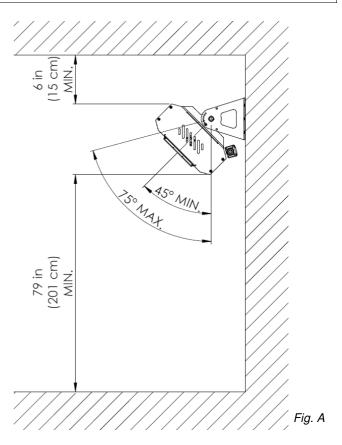
- **WARNING:** Wiring procedures and connections should be in accordance with the National Electric Code (NEC) and local codes.
- ▲ WARNING: If the supply cord becomes damaged, it must be immediately replaced by a qualified person.
- ▲ CAUTION: Disconnect electric power supply before working on circuit wiring to prevent electric shock.
- ▲ CAUTION: Please observe the minimum safe distance (see Table. 1) between the heater body and any inflammable surfaces.
- **CAUTION:** When installing outdoors we recommend the heater is positioned where it will be protected from exposure to extreme weather such as snow and ice.
- ▲ CAUTION: When the electrical connection is outside a weatherproof socket must be used having ground fault protection (GFCI or GFI).
- **I** NOTE: IF IN DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

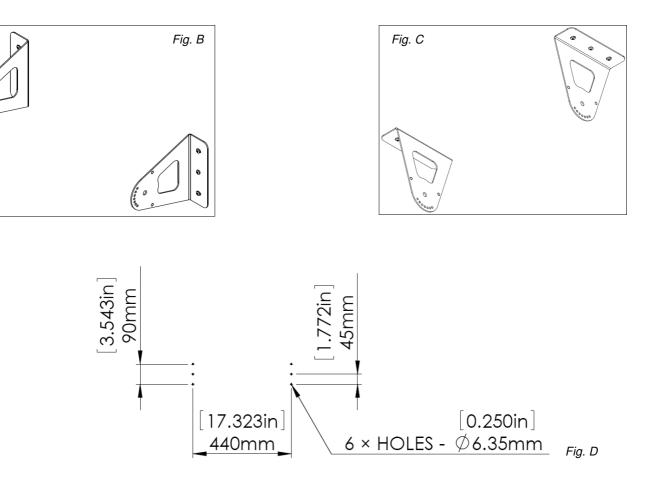
MOUNTING - WALL MOUNTED

CAUTION

Switch off/unplug the heater from the mains supply when mounting or adjusting the heater position.

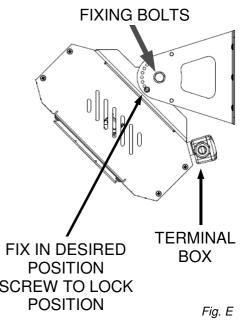
- The heater is suitable for installation only on a normally non-flammable surface. Observe the minimum safe distance between the heater body and inflammable surfaces when mounting. Please refer to Table 1 for the recommended positioning of the heater with regards to minimum distances. Do not install the heater in a corner! If installing near a corner, always ensure minimum side wall distance is observed.
- Do not position the heater near to furniture or curtains as this would present a fire hazard.
- When wall mounting the heater in a horizontal manner, do not position the heater at an angle more than 75° and less than 45° when viewed from the side as shown in Fig. A.
- Always allow the heater to cool before attempting to reposition/move. Never attempt to move the heater while it is switched on!





- 7
- fix through the body brackets. Loosely fit the fixing SCREW TO LOCK bolts on the brackets at the rear of the heater as POSITION Fig. E shown in Figs. E & F. Fix in the desired position and tighten locking screws. Then fully tighten heater bolts. **FIXING BOLTS** Ensure the supply cable is not resting on the heater. TYPICAL HEATER MOUNTING ARRANGEMENT SCREW TO LOCK DOWNWARD POSITION Fig. F Fig. G

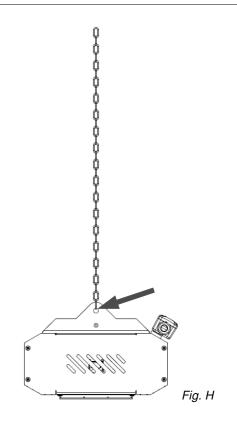
- 1. Securely fasten the L-shaped wall brackets to the mounting surface as shown in Fig. B (for mounting) or Fig. С (for overhead wall mounting). Refer to the mounted bracket hole centres detail in Fig. D. See Table 1 for recommended positioning of the heater. NOTE: WALL FIXINGS ARE NOT SUPPLIED.
- 2. The heater should be mounted with the terminal box at the bottom of the heater when wall mounted (see Fig. E).
- 3. Position the heater between the two brackets and
- 4.
- 5.



CAUTION

Switch off/unplug the heater from the mains supply when mounting or adjusting the heater position.

- The heater is suitable for installation on chains that are suitably fixed to a structure sufficient to hold the weight of the heater. Observe the minimum safe distance between the heater body and inflammable surfaces when mounting.
- Please refer to Table 1 for the recommended positioning of the heater with regards to minimum distances. <u>Do not install the heater in</u> <u>a corner!</u> If installing near a corner, always ensure minimum side wall distance is adhered to.
- Do not position the heater near to furniture or curtains as this would present a fire hazard.
- Always allow the heater to cool before attempting to reposition/move. Never attempt to move the heater while it is switched on!
- 1. When chain hung, ensure chains are of adequate size and securely fixed to support the weight of the heater.
- 2. Fix the heater assembly to the chains via the holes in the centre of the body brackets if intending to face directly down as shown in Fig. H. If the heater is to be angled fix the heater to the brackets as described in the previous mounting sections and connect the chain to the holes on the brackets (Fig. J).
- **3**. Ensure the supply cable does not rest on the heater.



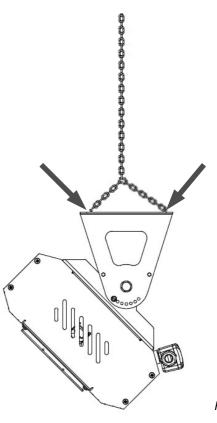


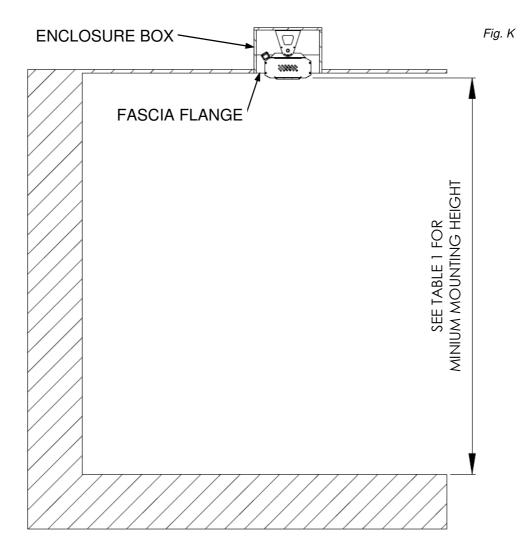
Fig. J

MOUNTING - CEILING RECESSED

CAUTION

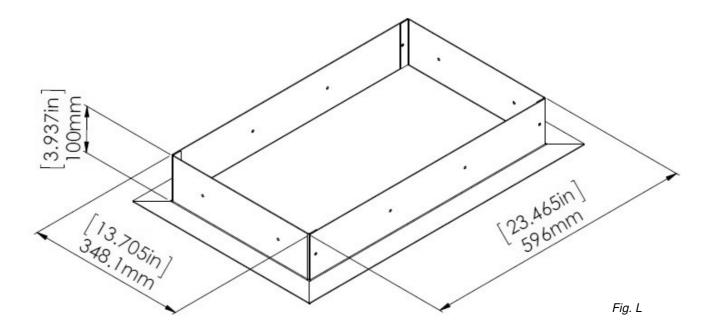
Switch off/unplug the heater from the mains supply when mounting or adjusting the heater position.

- See Fig. K below showing typical recessed mounting arrangement.
- Please refer to Table 1 for the recommended positioning of the heater with regards to minimum distances. <u>Do not install the heater in a corner!</u> If installing near a corner, always ensure minimum side wall distance is observed.
- Do not position the heater near to furniture or curtains as this would present a fire hazard.
- Always allow the heater to cool before attempting to reposition/move. Never attempt to move the heater while it is switched on!
- When recess mounting the heater it must be accompanied with a enclosure box made from a suitable material with a <u>1 hour fire rating</u> and a fascia flange trim kit <u>must be used</u>. See Fig. L for dimensions of fascia flange trim detailing the box length and width. Please note, the enclosure box and fascia flange can weigh in excess of 13.5 lbs (6.2 kg) so adequate structural provision is required for the installation.



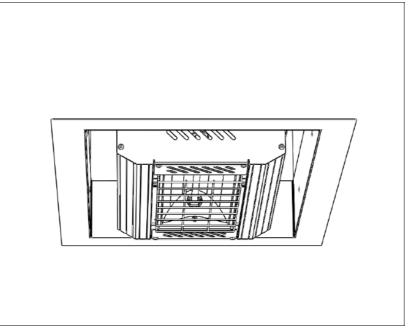
TYPICAL RECESSED INSTALLATION

DIMENSIONS OF FASCIA FLANGE TRIM FOR ENCLOSURE BOX



KIT OF 4 × SIDES SHOWN AS ASSEMBLED

TYPICAL INSTALLATION





MAINTENANCE

In the event of heater failure or for spare parts or advice, please contact your service agent.

- **A** CAUTION: Unplug/switch off unit from the mains supply before replacing an emitter or any maintenance procedure including cleaning.
- ▲ CAUTION: To ensure optimum heat effectiveness, it is recommended that the guard is removed and gently wipe the reflectors with a soft cloth. The emitter may also be carefully wiped. Please take care not to touch the emitter with bare hands.

YOUR REPLACEMENT EMITTER

It is important that when ordering a replacement emitter the heater model type is specified. Failure to fit the correct emitter will cause the heater to fail and become dangerous in use. Please contact your service agent to purchase your replacement emitter.

HANDLING THE REPLACEMENT EMITTER

Your new emitter should be handled with care and without touching the quartz glass with bare hands. A cotton glove may be used for this purpose. Remove any finger marks with a soft cloth and methylated spirits or rubbing alcohol. Finger marks will burn into the emitters quartz glass causing premature failure.





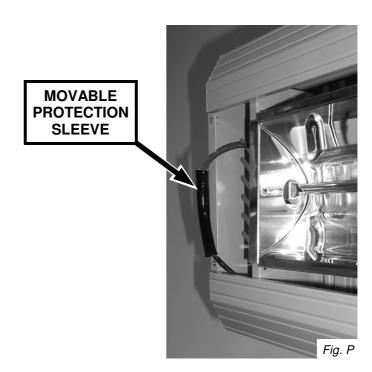
REPLACING THE EMITTER

CAUTION

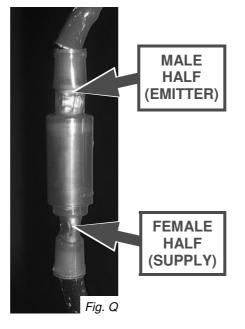
Unplug/switch off from the mains power to the heater power before any attempts are made to replace the emitter. Contact your service agent for the correct replacement emitter quoting model type and rating from rating label. It is important that you read through the emitter replacement procedure before commencing.

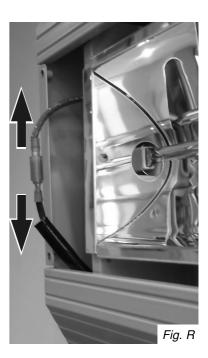
- 1. Disconnect the power supply to the heater.
- 2. Remove guard by flexing one end and releasing from it's locating holes.
- **3**. Remove the three screws from both front side covers (Fig. N).

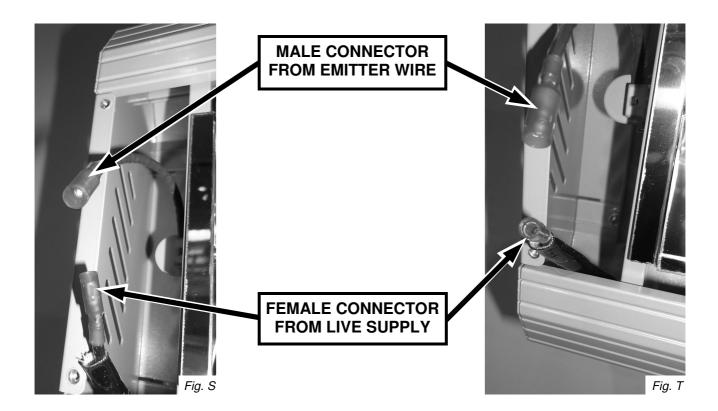




4. Slide the black sleeving (Fig. P) downwards to reveal the quick-fit female/male connector. Holding the two connector halves as shown in Fig. Q (don't hold by the wires), gently pull apart in the direction shown in Fig. R to separate the connection as shown in Fig. S and Fig. T. Repeat at opposite end.







. Remove the emitter holding clips (Fig. U) by squeezing the clip together and lifting away as shown in Fig. V.

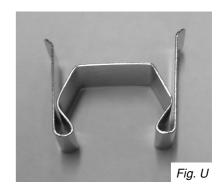
6. Slide the emitter out through the extrusion feeding one way first with the wire and then the opposite way to take out and remove. Take care not to scratch the reflector surface.

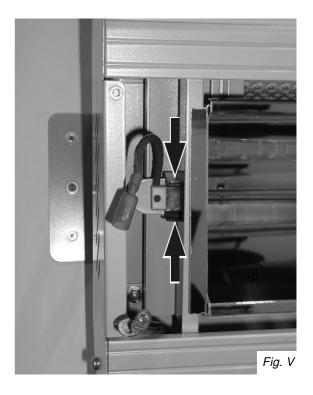
. Refit the new emitter. Take care not to mark the reflector or touch the new emitter with the hands (see note on page 11).

. Replace the emitter holding clips. Make sure they are firmly in place over the white ceramic ends of the emitter.

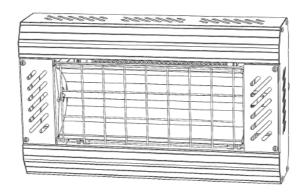
. Refit the male and female connectors by fully pushing together. Cover and refit the black sleeve.

. Replace the front side covers in reverse order and then refit the wire guard.





Solaira ICR Series H1



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