



***Model e7500/120V HeatProjector
with Stand***

Part Number: HZHPe7500C120YMS

ELECTRIC RADIANT HEATER

RADIANT OPTICS MFG., LLC

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1.0 About your HotZONE™ HeatProjector

Congratulations on your purchase of a revolutionary HotZONE™ *HeatProjector* from Radiant Optics. The *HeatProjector* line of electric infrared heaters are the most efficient spot heaters on the market today – and not by just a little bit. Our high efficiency heat “projector” is made possible by the combination of two proprietary and innovative features. Infrared heat is generated with our unique Inverted Cone IR element and focused using our precision Compound Reflective Lens. These act to generate, collect, and concentrate heat rays into a beam that can be pointed at a target area.

This model e7500 delivers the equivalent energy of a 7500w non-lensed heater with only 1500w input.

HeatProjectors are very low cost to run, have a smaller carbon footprint and can deliver a beam of heat to a target over a longer distance and with a defined edge between the heated and unheated areas.

Visit www.radiantoptics.com for more information about mounted *HeatProjectors* and replacement elements.

Warranty

Radiant Optics Mfg., LLC warrants, to the original purchaser, our products to be free of defects in material or workmanship for six months from date of purchase. Parts found to be defective will be repaired or replaced at the option of Radiant Optics Mfg., LLC. This warranty of material and workmanship specifically excludes labor and ordinary and routine servicing and maintenance associated with the goods sold, including replacement of the element which has an expected service life of 2000 hours.

What is Not Covered By The Warranty

The warranty does not cover:

- (1) Installations not made in accordance with installation instructions;
- (2) Where the operation of the product varies substantially from our operating instructions;
- (3) Malfunctions resulting from misuse, negligence, alteration, accident or lack of maintenance;
- (4) Labor, loss of time, inconvenience, loss of use of the product, or other consequential damages;
- (5) Products with the manufacturer nameplate removed.

The above constitutes our sole warranty. THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

2.0 Important Instructions

When using or working on electric 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 installing or using this heater.
2. Remove the unit from the packaging and make sure it is in good condition before using.
3. Keep packaging away from children.
4. Do not operate any heater with a damaged cord, plug, element, switch or stand, or if malfunctioning due to previous use or drop. Disconnect power if the supply cord is damaged in any way and contact our customer service.
5. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc. and curtains at least **4 feet** from the front of the heater and keep them away from the sides and rear.
6. Do not use near or in the immediate vicinity of a bath, swimming pool or any other body of water. Do not use in the rain.
7. Do not immerse cord or plug in any liquid.
8. Always unplug the heater when not in use.
9. Connect only to properly grounded outlets.
10. Always plug heater directly into outlets. Do not use extensions cords or power strips.
11. Do not cover cord with carpets, rugs, runners or similar items. Do not route cord under furniture or appliances. Arrange cord away from high traffic areas. Arrange cord where it will not be tripped on.
12. Extreme caution is necessary when any heater is used by or near children or invalids. Do not operate unattended.
13. To disconnect heater, turn power switch to off, and unplug from outlet.
14. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
15. To prevent a possible fire, do not block air intakes or exhaust in any manner.
16. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
17. Do not place fingers or foreign objects into grill on lens at anytime.
18. 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.
19. Burned-out elements cannot be safely repaired and must be replaced.
20. This heater is intended for use by capable adults only.
21. "SAVE THESE INSTRUCTIONS"

3.0 Setup and Operation

Setup

1. Remove the heater head and stand from its packaging.
2. Place the stand on a level surface, adjust height, and hand tighten clamps. See instruction provided with stand.
3. The stand comes with a "screw adapter fitting" installed that is unnecessary. Untighten top clamp and remove fitting and discard.
4. Place heater head fitting into hole on top of stand. Tighten clamp.



Operation

1. Intended for OUTDOOR use only.
2. Always maintain a minimum clearance of 4 feet in front of the heater and 1 foot from adjacent walls and other surrounding objects to the sides, top and back of the heater.
3. There is an anti-tilt switch inside the unit. In the event the heater falls over, the anti-tilt switch will de-energize the heater.
4. Plug the unit into a 3-pin properly grounded 110V/120V outlet.
5. Allow the cord to drop directly to the ground at the base of the heater. There should be no tension on the cord from stretching it to reach an outlet.
6. Adjust the heater head to point the heater at approximately a 25-45 degree angle. The anti-tilt switch can de-energize the unit if the head is tilted too low or too high. The anti-tilt switch will automatically reset once the heater head is returned to its proper operating position.
7. Turn the heater on using the on/off toggle switch.
8. Use sand bags as necessary to prevent the unit from tipping over.
9. Disconnect heater from power and allow the heater head to cool before putting it away or disassembling the heater/stand.

4.0 Cleaning and Maintenance

1. The heater does not contain user serviceable parts. Should the product be damaged or breakdown, contact our customer service.
2. Damaged supply cords must be replaced by the manufacturer.
3. Replacement elements are available and should be installed by qualified personnel.

Cleaning

Unplug the power cord and make sure the heater is cool before continuing. Clean the outer shell with a soft damp cloth. Do not use flammable cleaners such as alcohol, gasoline, or solvents or abrasive powders, furniture polish or rough brushes to clean the other shell.

Do not clean inside the heater or put objects through the lens grid. Ensure the element does not get wet.

Maintenance

Visually inspect the heater, cord and plug for damage at least once per month.

HotZone™ heaters have no moving parts and require very little maintenance. We recommend the following be done at least once a year:

- With an air hose regulated to 30 psi or less, blow off any dust and dirt that has accumulated on the reflective surfaces of the heater and reflective lens. Accumulated dirt can degrade performance .
- Blow off any accumulated dirt on the vent gaps of the heater and make sure the cover is not bent such that the vent area is reduced.
- When not installed or in use, store the heater in a dry, dust-free place and be sure the lens assembly is protected from any possible damage.

5.0 Troubleshooting

At power and after two to three minutes of warm-up time, the heater element should glow a warm orange color, similar to the color of coals in a hot fire.

If the element does not warm up at all:

- Check that the power is on at the circuit breaker and/or any installed switch or dimmer.
- Position in proper operating position (heater head at 25 to 45 degrees) to ensure anti-tilt switch is not active.
- Check that the element has not failed. Burned out elements normally have visible burn marks on the face of the element. If there is no evidence of damage, and you still suspect the element, disconnect the power, turn the switch to the on position, and check resistance across the spades on the cord. Element failure is indicated by an open circuit.
- **If the heater barely glows:**
 - Check any installed dimmer is turned full on and operating correctly,
 - Check for the correct 110V-120V line voltage (under load condition).

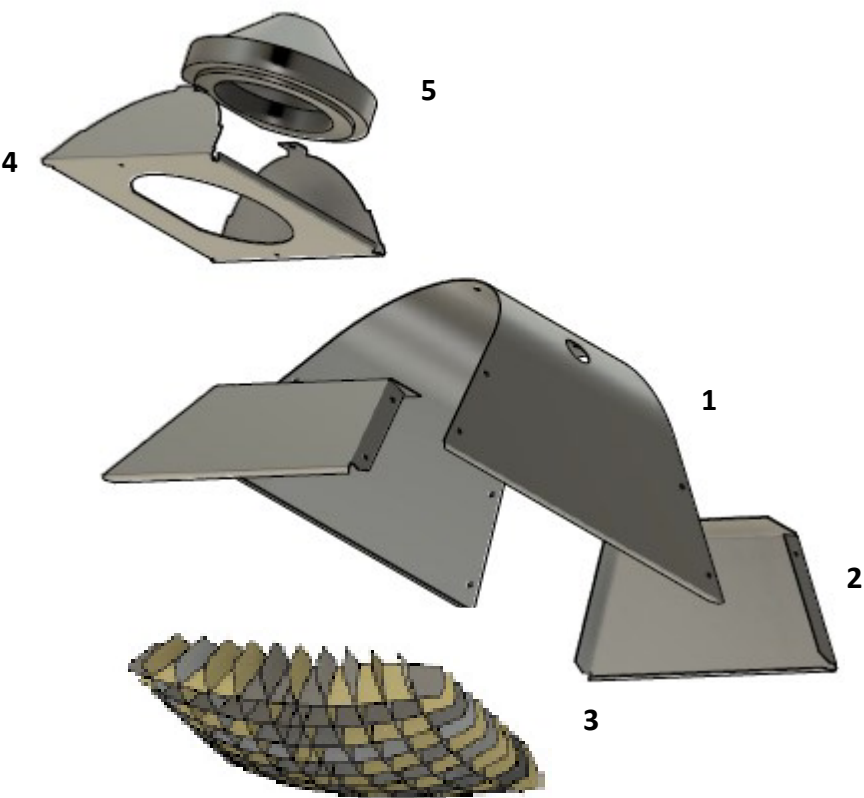
Replacement Elements

The estimated life of the element is approximately 2000 hours. Information on replacement elements can be found at www.radiantoptics.com.

Lens Repair

Heater lenses are manufactured from thin aluminum and are easily bent and damaged. Heater performance deteriorates when the lenses are bent or damaged. In most cases the lenses can be bent back into shape by hand or with pliers. If the lens cannot be repaired, it can be replaced.

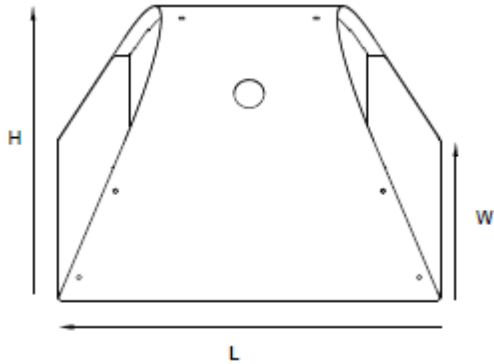
6.0 Technical Information



#	Description
1	Cover
2	Side
3	Lens
4	Element Bracket
5	Element

Model	L	W	H	Weight	Power Input
e7500YMS	15"	15"	9"	4LBS	1500 Watts

Voltage	Current
120V	12.5 amps



Replacement Element

Part Number: HPHZe7500C120V

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