

*** IMPORTANT INSTRUCTIONS ***

When using electrical appliances, 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 assembling, installing and using this heater.
2. 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, paper, clothes and curtains at least 48" (1.500 watt) / 60" (3000 watt) / 96" (5000 watt) from the front of the heater and keep them away from the sides and rear. **Do not install closer than the minimum clearances to any surface.**
3. Extreme caution is necessary when any heater is used by or near children or persons that may not have reasonable judgement around appliances. The heater should not be left unattended while operating.
4. If heater has a cord and plug, always unplug when not in use.
5. Do not operate any heater with a damaged cord or plug (if applicable) or after the heater malfunctions, or has been dropped or damaged in any manner. Return heater to dealer for examination, electrical or mechanical adjustment, or repair.
6. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
7. If heater has a cord, do not run cord under carpeting. Do not cover cord with throw rugs, runners or similar coverings. Arrange cord away from traffic area and where it will not be tripped over.
8. To disconnect heater, turn control OFF (if provided), then remove plug from outlet (if applicable).
9. If heater has a cord and plug, connect to properly grounded outlet only. The heater should always be connected to a grounded circuit. If a GFCI socket is not available, GFCI adapters can be purchased locally. Heater must be installed according to NEC and all local electrical codes. Be sure the electrical supply is adequate for the heater (voltage/amperage/phases) while allowing for line losses. Use supply wires suitable for 90° C.
10. Do not insert or allow foreign objects to enter the heater or block any ventilation openings as this may cause an electric shock or fire, or damage the heater. Do not cover or obstruct the heater while operating.
11. A heater has hot and/or arcing and/or sparking parts inside. Do not use it in areas where gasoline, paint, flammable liquids or highly combustible dusts are used or stored.
12. 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.
13. If heater has a cord and plug, avoid the use of an extension cord because the extension cord may overheat and cause a risk of fire. However, if an extension cord must be used, please contact your local licensed electrician for a safe recommendation based on heater voltage, wattage and cord length. Heaters rated 120 volts will require appropriate gauge three-wire cord with grounding type plug and cord connector.
14. If the unit is installed in proximity of tents or awnings, make sure that recommended installation heights and clearances are respected, and that the heater is not in direct contact with the tent or awning material.
15. Allow for user angle and directional adjustment, if possible, as heating requirements change. The optimal mounting angle is between directly down and 45°. Comfort is best obtained with the heater off to one side and angled at 35°. Install heaters so that items in the infrared beam do not overheat.

16. Burned-out elements cannot be repaired and must be replaced. The element can be replaced by the user; please follow the instructions provided. **Always disconnect the heater from the main electrical supply during installation and/or replacement of the heater element.**
17. To prevent a possible fire and to increase the life of the heater, always install HZS Series heaters with the thermal junction box on the low side. **Failure to mount the heater with the junction box on the low side may void the warranty.**
18. After the heater is installed and power is turned on, the element should begin glowing within 20 to 30 seconds and glow a uniform red-orange color within two to three minutes. **If it begins glowing more quickly or glows very brightly, turn the heater off immediately and re-check the supply voltage.**
19. The heater will smell very hot for the first few minutes of operation, then will stop emitting an odor.
20. The HotZone® heating element operates at approximately 1800° F. The element is resistant to thermal and mechanical shock, and is appropriate for use in both wet and dry locations only, if permanently mounted on a junction box.
21. The element has an expected life of 2000 hours. When an element burns out, it cannot be repaired and must be replaced. For replacement, have your heater model number available and call your Schaefer HotZone® dealer to order the correct element.
22. If the position of the heater needs to be adjusted after it is attached to the mount, be very careful. **DO NOT GRAB THE HEATER HEAD AND TWIST!** The heater can be adjusted up and down, but it cannot be adjusted from side to side.

*** SAVE THESE INSTRUCTIONS ***

CAUTION

**** DO NOT USE THIS HEATER FOR APPLICATIONS FOR WHICH IT IS NOT INTENDED. ****
HotZone® heaters are intended for heating people or objects from a distance in excess of the minimum distance to combustibles. Use of the heater for applications such as paint drying or equipment heating from a short distance where infrared energy will reflect back toward the heater will overheat the element, causing early element failure and negating the warranty.

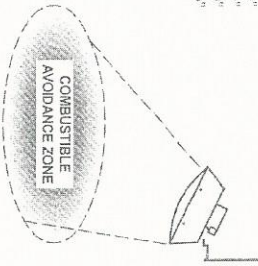
**** DO NOT USE THIS HEATER AS A PORTABLE HEATER. ****
HotZone® heaters are designed, tested and approved as fixed and location-dedicated heaters. If the heater is used as a portable heater there is a great risk of fire and/or heater damage if the heater is placed too close to combustibles or if the heater tips over.

HZE & HZS Series Clearance to Combustibles

NOTES

- Mount the heater at or above the **MINIMUM MOUNTING HEIGHT**.
- Make sure the **MINIMUM DISTANCE TO COMBUSTIBLES** is maintained around and below the heater.
- The bulk of the heat radiates from the lens of the heater and care must be taken to keep combustibles out of the **COMBUSTIBLE AVOIDANCE ZONE** of the beam.
- At minimum distance to combustibles heaters will not raise the temperature of a highly absorptive surface more than 90° F.
- The minimum distances around the heater are not as critical as the combustible avoidance zone below the heater. **DO NOT** allow the heater to be aimed at a wall or any other combustible material.

Mounting Angle	HZE44		HZE30		HZE50	
	0°	45°	0°	45°	0°	45°
MINIMUM MOUNTING HEIGHT	72"	72"	72"	72"	96"	96"
MINIMUM DISTANCE TO COMBUSTIBLES (around heater)						
Above	6"	9"	9"	9"	12"	12"
Back	9"	9"	18"	18"	30"	30"
Front	9"	9"	18"	18"	41"	59"
Side	9"	9"	18"	18"	30"	30"
Below (in beam)	48"	48"	66"	66"	96"	96"
DIAMETER OF COMBUSTIBLE AVOIDANCE ZONE (below heater)						
Distance from lens	26"	33"	38"	48"	58"	68"
12"	36"	42"	48"	58"	68"	78"
24"	46"	52"	58"	68"	78"	88"
36"	56"	62"	68"	78"	88"	98"
48"	66"	72"	78"	88"	98"	108"
60"	76"	82"	88"	98"	108"	
72"	86"					
84"	96"					
96"						



CAUTION

**** DO NOT LEAVE HEATER OPERATING UNATTENDED ****
**** DO NOT INSTALL THIS HEATER ABOVE FLAMMABLE MATERIAL ****

The elements in HoZoZone heaters will eventually fail, much like a light bulb will eventually fail. When a heater element fails, extremely hot material may be ejected from the heater and this material can damage or ignite materials under the heater. To avoid these dangers, do not install heaters directly above flammable materials or materials that can be damaged by hot materials, do not leave the heater operating unattended, and replace elements before they fail.