

 HEAT STORM
OUTDOOR QUARTZ
INFRARED HEATER
USER MANUAL



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MODEL

HS-1500-OWO
HS-1500-OTR

INTRODUCTION

The Heat Storm all season outdoor/indoor shop heater produces infrared radiant heat, warming people and objects rather than the air between, providing the only form of heat that will not blow away.

The Heat Storm's weatherproof design is perfect for worry-free outdoor and industrial use.

Please read the enclosed instructions carefully before installation or use.

Thank you and congratulations on your purchase of your Heat Storm™ Outdoor Infrared heater.

PLEASE READ THIS MANUAL BEFORE OPERATING THIS APPLIANCE.

WARNING

IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED, AN ELECTRIC SHOCK OR FIRE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE. DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

WARNING

ANY REQUIRED SERVICE OTHER THAN FILTER MAINTENANCE SHOULD ONLY BE PERFORMED BY AN AUTHORIZED SERVICE REPRESENTATIVE AND ANY OTHER REPAIRS ATTEMPTED BY ANYONE OTHER THAN AN AUTHORIZED SERVICE REPRESENTATIVE WILL VOID THE WARRANTY.

SAFETY AWARENESS

WARNING-WHEN USING ELECTRICAL APPLIANCES, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY CAUSE A FIRE, ELECTRICAL SHOCKS OR OTHER INJURY TO PERSONS OR PROPERTY

- When using electrical appliances, basic safety precautions should always be followed. Failure to comply with these instructions may cause a fire, electrical shocks or other injury to persons or property.
- 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 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- Always unplug heater when not in use.
- 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.
- Remove product from the packaging and ensure it is in good condition.
- DO NOT let children play with the packaging, for example plastic bags.
- Check that the voltage and frequency of your appliance match your mains voltage before plugging in.
- This heater is hot when in use. To avoid burns DO NOT touch the grills or heating element during use or attempt to move the heater.
- DO NOT touch the heater with wet hands.
- DO NOT operate any heater with a damaged cable or plug, or after the heater malfunctions, has been dropped, or damaged in any manner. Return the heater to an authorized service facility for examination and repair.
- DO NOT attempt to repair or adjust any electrical or mechanical functions as this may void warranty.

SAFETY AWARENESS

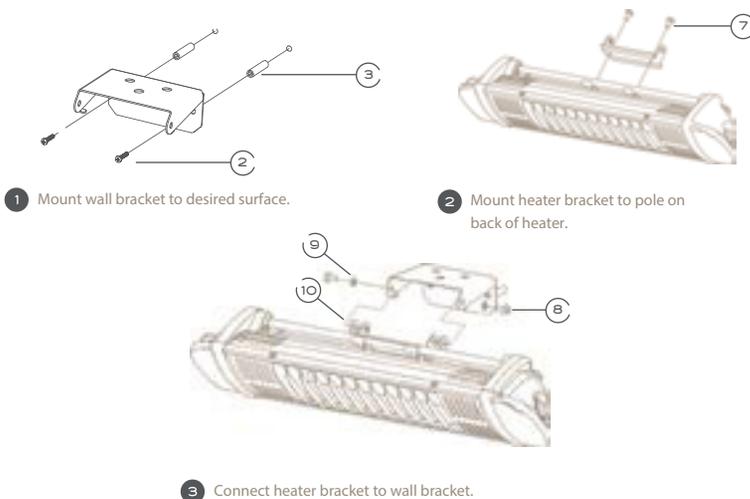
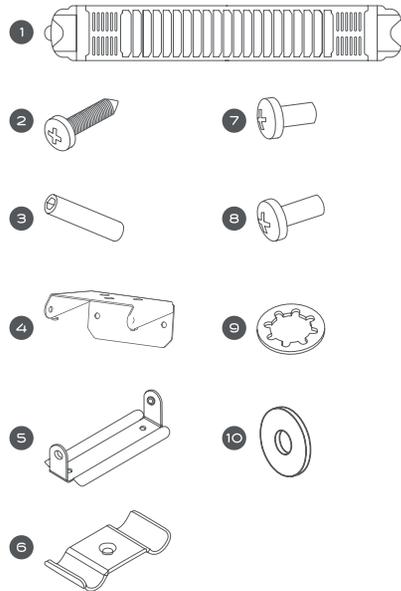
- DO NOT insert or allow objects to touch the heating element and never place anything on the heater safety guard (e.g. towels), as this may damage the heater and could cause an electrical shock or fire. Never use your heater to dry washing.
- If the heating element has stopped glowing it may still be live, please check that the heat setting indicates the heater is off. Always disconnect your appliance from the mains before any cleaning or replacing tubes.
- Always unplug the heater when not in use. To disconnect from the power supply, grip the plug and pull from the power socket. Never pull by the cable.
- DO NOT direct the heater towards curtains, furniture or other flammable objects and ensure that there is a minimum distance from objects around (see figure 1, figure 2).
- DO NOT use this heater in conjunction with a timer device or any other device, which facilitates unattended switch on.
- DO NOT pull the power cable or the device itself to unplug it from the socket; pull the plug directly.
- The power cable must be fully unwound before use.
- If the supply cable is damaged, it must be replaced by the manufacture, its service agent or similarly qualified person in order to avoid a hazard.
- This product is not designed for use by persons (including children) who have reduced physical, sensory or mental capacities or persons with no experience or knowledge, unless they are instructed and supervised in the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they DO NOT play with appliance.
- Mounting instructions: The distance between the bottom edge of the heater and the floor must be at least 72" (1.8 m). The distance between the top of the heater and the ceiling/roof/ overhead material must be at least 18" (0.5m). The distance between each end and adjoining walls or surfaces must be at least 18" (0.5m).

SAFETY & AWARENESS

- 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.
- 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
- To disconnect heater, turn controls off, then remove plug from outlet.
- Connect to properly grounded outlets only.
- 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.
- To prevent a possible fire, do not block air intakes or exhaust in any manner. DO NOT use on soft surfaces, like a bed, where openings may become blocked.
- A heater has hot and arching or sparking parts. DO NOT use it in areas where gasoline or other petrol products, paint or flammable liquids are stored within a 10' of the heater.
- 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.
- If you use an extension cord the cord shall be NO.16 AWG or larger in size and rated to carry a minimum of 1500 Watts /12.5 AMPs. CAUTION! Using an extension cord does present the risk of the cord overheating and possibly causing risk of fire.
- Make sure the heater is supplied by the branch circuit fitted with a 20 amp or larger. It is also recommended that the heater be on its own dedicated circuit.
- Remove product from the packaging and ensure it is in good condition.
- DO NOT use the heater in areas where petrol, paint, or other flammable substances are stored.
- If the appliance is not used for a long period, disconnect it from the power supply
- KEEP THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS

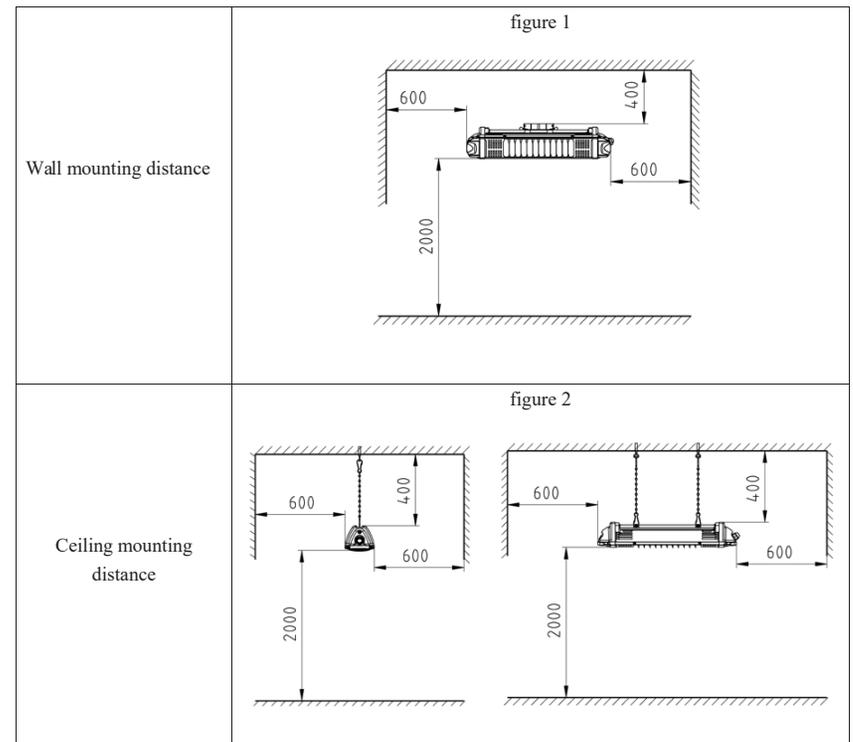
1. Heater (x1)
2. Self Tapping Screw (x2)
3. Plastic Plug (x2)
4. Wall Bracket (x1)
5. Heater Bracket (x1)
6. Heater Bracket Plate (x2)
7. M4 Screw (x2)
8. M6 Screw (x2)
9. Spring Washer (x2)
10. Rubber Washer (x2)



INSTALLATION INSTRUCTIONS

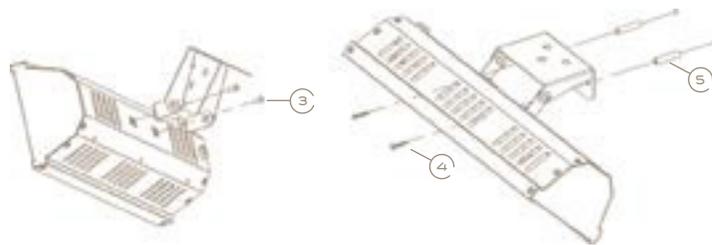
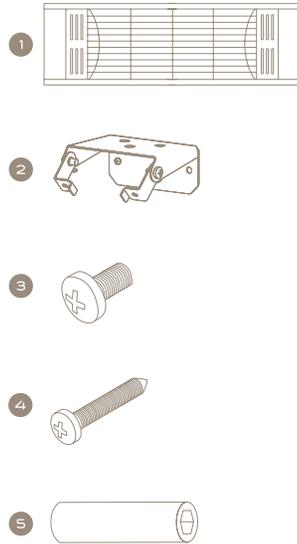
Precaution:

- Installation should always be carried out by a qualified electrician or a competent person
- The energy supply must be done through a properly grounded socket.
- The heaters should always be installed **horizontally** and should always only use the mounting brackets or chains provided.
- Minimum distances should always be complied with (see figure 1, figure 2)
- The heater should not be facing the ceiling or inflammable substances.
- The heater must be installed so as to prevent that the switches can be touched from those who are in the shower.
- Do not use the heater directly near a bathtub, a shower, a swimming pool.
- Ensure that there is no possibility of inflammable material coming into contact with the heater, or lies near the heater.
- Heaters should not be installed in areas where hazardous vapours may be present. Defined in BS5345.
- The heaters are fitted with safety guards. These are intended only to stop large objects from hitting the emitters. On no account should the heater be operated with the guard removed.



INSTALLATION INSTRUCTIONS

1. Heater (x1)
2. Wall Bracket Assembly (x1)
3. M4x8 Screw (x2)
4. Self Tapping Screw (x2)
5. Plastic Plug (x2)



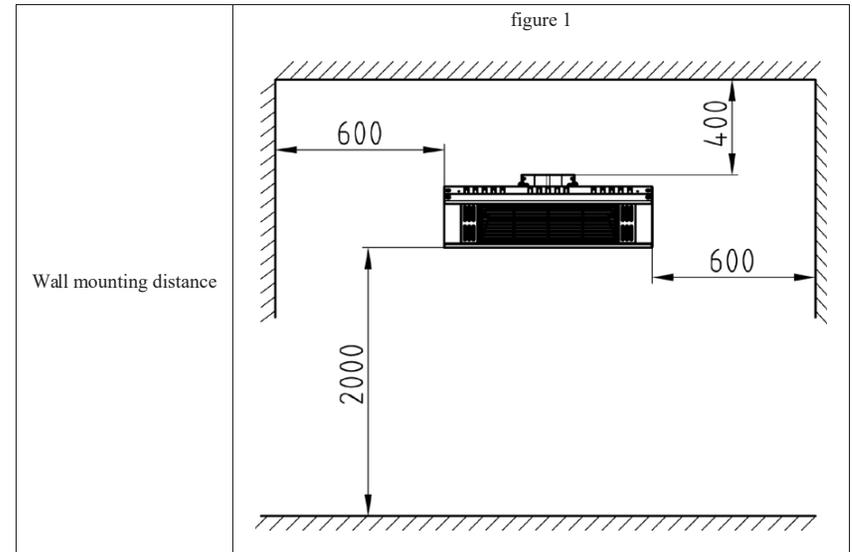
1 Mount heater bracket to back of heater.

2 Mount wall bracket to desired surface, then connect heater bracket to the wall bracket.

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OPERATIONS & CONTROLS

- Press both tabs to remove the filter cover and remove the filter, noting which side of the filter receives air flow into the heater.
- Run warm tap water over the filter, the opposite direction of air flow, until water runs clear. The filter might excrete some filtered residue, so be cautious not to drip on any stain-able surfaces such as carpeting. You can also soak the filter in water mixed with a small amount of mild dish soap (remember to rinse well with clean water after soaking filter).
- Shake the filter over a sink until excess water is removed and allow it to drip dry completely before reinstalling.
- DO NOT force or attempt to speed the filter drying process by using any alternative methods.
- ENSURE that the filter is completely dry before inserting back into the air inlet and replacing covers.
- Reinstall the filter and replace cover.

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ANY REQUIRED SERVICE OTHER THAN FILTER MAINTENANCE SHOULD ONLY BE PERFORMED BY AN AUTHORIZED SERVICE REPRESENTATIVE

TROUBLESHOOTING GUIDE

When I power the heater ON it doesn't blow any air at first	The heater is functioning as it should. The first 20 seconds allows the infrared elements to get hot so that once the fan does begin to blow it will move warm air into the room.
Why doesn't my heaters temperature match my central heating thermostat?	All thermostats vary in their temperature setting. In most cases the central heating thermostat is not as accurate as your Heat Storm heaters thermostat. However, you can calibrate your Heat Storm heater's thermostat to match your central heating thermostat if you choose. Please see the "Calibration" section of this manual.
The heater keeps blowing air when the leaf symbol is not red or green	The heater is functioning as it should. This is the cool down phase. The heater will run for several minutes to cool down the internal components. This increases the lifespan of the infrared elements.
The heater does not blow warm air	A -Check if the air inlet is blocked or the air filter is dirty and needs to be cleaned. B -The ambient temperature is higher than the thermostat setting. C - Disconnect the unit from the wall outlet for 2 hours. After 2 hours plug the unit back into wall outlet. If the problem persists call customers service.

QUESTIONS & ANSWERS

QUESTIONS	ANSWERS
Why does the Blower Fan keep running after I have turned off the rocker switch?	The Blower Fan will continue to run until the heat chamber has cooled down. After a few minutes the fan will shut off automatically. This ensures that the quartz infrared heating elements are cooled properly helping to ensure the longevity of your heater.
Can the heating elements be replaced	Yes. Contact an authorized repair center. Generally, this is the store where you purchased your heater.
My cord is getting very hot, especially at the plug. Is that normal?	No. Most likely the problem is that the connection from the wall wiring to the outlet is faulty and is causing the outlet and plug to overheat. Also, make sure there are not too many appliances plugged into outlets on a single circuit. If the problems persist consult a qualified electrician.
The heater's airflow seems to have diminished?	Make sure the air inlet is not blocked and that the filter is clean. Follow the Filter Maintenance procedure in the Operation Instructions section.
Once I initially plug the unit in and turn it on, how long will it take to heat my room?	Generally, it takes about a half hour. Please remember that with any type of heating process there are many variables; size of the room, how well the room is insulated, how many doors/windows, how much bare concrete (which acts as a heat sink with any type of heating), the opening and closing of an exterior door, etc... Therefore, heating performance will vary in every environment.
Can I use the heater to heat multiple rooms at the same time?	Yes. Keep in mind the heating will vary based on how open your floor plan is and the sizes of the rooms involved. Our suggestion, give it a try and see what works best for you.
My Heater never seems to reach the set temperature, it just keeps running.	There are several possible causes. Make sure the filter(s) are clean. If the room is drafty or poorly insulated the thermostat sensor may be taking an inaccurate reading. Make sure to keep doors closed so that the heater can heat the room. Also, ensure that the heater is plugged into an interior wall and is not below a window. Often, when a heater is below a window the cool air from the window is causing an inaccurate temperature reading.

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QUESTIONS & ANSWERS

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My home is not insulated very well, will this heater help me?	Yes, but keep in mind that rooms with little insulation will not retain the heat as efficiently and may result in your heater running longer or more often.
Can I use the heater if I have vaulted or cathedral ceilings?	Yes, but it may take longer to heat the room initially. Once the room has reached the desired temperature it will cycle on and off accordingly.
Can the heater be used in a bathroom?	It is not recommended due to the high level of moisture in a bathroom.
Will I be able to use the heater in a basement or garage?	Yes, if the basement is finished with drywall and carpet. Otherwise we recommend you use our Heat Storm Outdoor Infrared Heaters for this heating need. For more information visit heatstorm.com
Can I use more than one heater at a time?	Yes, make sure they are not on the same electrical circuit. Each heater and appliance should be on its own circuit.
Can I use the heater on a job/construction site?	Our outdoor infrared heaters are recommended for non-insulated or outdoor environments. For more information visit heatstorm.com
Can I move the heater around while it is operating?	It is not recommended to move any portable heater while it is operating. We recommend turning the heater to the off position and moving the heater once the fan has completely turned off.
What is the life expectancy for the Quartz Elements?	Average element life is 20,000 hours. The Quartz Elements are replaceable by an authorized service dealer.
What is Zone Heating?	Zone heating implies that there are multiple areas in any given home or business where climate is best controlled by heaters that generate and deliver heat in each area or zone AND regulate temperature in each area or zone with its own thermostat. Zone Heating is the opposite of central heating which generally relies on a single thermostat to determine climate control for other areas of the house or business. Central heating also requires ducting to deliver heat, which is very inefficient.

QUESTIONS & ANSWERS

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Can I use the heater and another appliance at the same time?	Yes, as long as they are not on the same electrical circuit. Heat Storm Infrared Heaters are considered to be an appliance. You should not run more than one large appliance on a single circuit breaker. Your heater, freezer, refrigerator, microwave oven, washing machine, dryer, and other such appliances should not share a circuit breaker.
Can I use an extension cord, surge protector, or power strip with my heater?	It is not recommended. Heat Storm heaters are designed to plug directly into a grounded 110 volt 15 amp or higher circuit receptacle (outlet). However, if you have to use an extension cord, the cord should be No. 14 AWG minimum size and rated not less than 1875 watts. The extension cord should be a 3 wire cord with a grounding type cord and plug connector.
I don't have a grounded outlet; can I use a cord adapter or remove the grounding plug?	NO. If you don't have a grounded outlet, contact a licensed electrician in your area for advice. Removing or altering any part of the heater will void the warranty.

QUESTIONS & ANSWERS

**HAVE QUESTIONS THAT
ARE NOT LISTED?**

**PLEASE CALL US AT
1-877-891-7333
OR EMAIL US AT
INFO@HEATSTORM.COM**

**VISIT US AT
WWW.HEATSTORM.COM
FOR MORE PRODUCT
INFORMATION**

1 YEAR LIMITED WARRANTY

The manufacturer warrants this product to be free from manufacturing and material defects for a period of 1 year from date of purchase, subject to the following conditions and limitations.

1. Install and operate this Electric Heater in accordance with the installation and operating instructions furnished with the product at all times. Any unauthorized repair, alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.
2. This warranty is non-transferable, and is made to the original owner, provided that the purchase was made through an authorized supplier of the product.
3. The warranty is limited to the repair or replacement of part(s) found to be defective in material or workmanship, provided that such part(s) have been subjected to normal conditions of use and service, after said defect is confirmed by the manufacturer's inspection.
4. The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).
5. Any installation, labor, construction, transportation, or other related costs/expenses arising from defective part(s), repair, replacement, or otherwise of same, will not be covered by this warranty, nor shall the manufacturer assume responsibility for same.
6. The owner/user assumes all other risks, if any, including the risk of any direct, indirect or consequential loss or damage arising out of the use, or inability to use the product, except as provided by law.
7. All other warranties – expressed or implied –with respect to the product, its components and accessories, or any obligations/liabilities on the part of the manufacturer are hereby expressly excluded.

1 YEAR LIMITED WARRANTY

8. The manufacturer neither assumes, nor authorizes any third party to assume on its behalf, any other liabilities with respect to the sale of the product.
9. The warranties as outlined within this document do not apply to non accessories used in conjunction with the installation of this product.
10. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty is void if:

- a) The heater is subjected to prolonged periods of dampness or condensation.
- b) Any unauthorized alteration, willful abuse, accident, or misuse of the product.
- c) You do not have the original receipt of purchase.

IF WARRANTY SERVICE IS NEEDED

Contact the manufacturer by calling customer service department at 1-877-891-7333. Make sure you have your warranty, your sales receipt, location of purchase and the model/serial number of your product.



Repairs must be carried out by authorized specialists to ensure electrical safety. Please contact the service agent or a suitably qualified electrician.

Improper repairs could lead to danger. The warranty does not cover damage or failure that results from alteration, accident, misuse, abuse, neglect or improper maintenance.

Due to ongoing product development we reserve the right to change the product specifications and documentation without notice.

For more information: ENERGYWISE SOLUTIONS
700 W 1700 S STE 111
LOGAN, UT 84321
877- 891-7333
heatstorm.com

