

ZappBug Heater™

Owner's Manual



IMPORTANT NOTICE:
Read Warnings Before Use!

SAFE PROVEN EXTERMINATION

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Important Safety Information

You must comply with all safety information when using this product. Please read all Warnings outlined in this section. Failure to comply could result in fire, injury, or damage to property!

Warnings describe serious consequences resulting from misuse of this product.



Read WARNING! Before Proceeding

WARNING! – Power Outlets Can Be Dangerous

Power Outlets with poor electrical connections can become dangerously overheated and may result in fire, severe injury and/or damage to property.

Follow the steps below for safe use of ANY high-power appliances:

1. Inspect outlet connection and contact strength.

Insert a standard, two-prong plug (without third, Ground connection) into outlet. Ensure that both prong connections offer equal and strong resistance when inserted. If the two-prong plug does not offer strong resistance or one prong feels easier to insert than the other, this outlet could be unsafe for high-power appliances. Have an electrician inspect and/or replace outlet before use.

2. Ensure that the outlet is no older than 15 years.

3. Inspect outlet and timer plug after each use.

4. If you are unsure about an outlet, have an electrician inspect and/or replace the outlet.

Explanation

High-power appliances require more electric current than most household items. Old and high-use outlets can have poor or loose connections. The high current required by this product, combined with a poor electrical connection can cause outlets to overheat and melt. It is important to make sure that any outlets used with this product have strong electrical contact.

Warning: Extension Cords

Some extension cords are not adequate to carry the load of current drawn by this heater without becoming dangerously overheated. If an extension cord *must* be used, do not use a cord set rated less than *1500 watts* or *15 amps*, and of a minimum size of 16 Gauge. Use only an extension cord with the UL seal. Use of an inadequate extension cord may result in overheating of the extension cord or fire.

Warning: Old Electrical Wiring and Outlets

Each ZappBug thermal unit will draw 12-15 amps of current (1500 Watts) and must be run on circuits rated **15 amps and above** only. Some old electrical wiring and outlets may not be capable of sustaining these loads. If you are unsure of the electrical wiring or outlets in your location, contact an electrician before operating ZappBug or any other high-current products. If electrical cord(s) appears deformed or feel hot to the touch, unplug immediately and contact ZappBug customer service. Old or faulty electrical wiring could lead to damage, dangerous fire and injury.

Additional Warnings

- Failure to comply with the Warnings presented by this manual may result in severe injury and/or damage to property.
- Incorrect assembly or improper use may result in hazardous conditions. Only assemble according to instructions in this manual.
- Do not block air intake or exhaust vents on heater. Obstructions of the intake or exhaust vents can cause the heater to overheat.
- Do not use outdoors or in a wet environment. This product is designed for use indoors only.
- Do not block exhaust vents. This can cause damage to the heaters.
- Do not reach into or insert objects into ventilation fan while running. This may result in injury or damage.
- Do not place flammable objects or aerosols inside the ZappBug Room™.
- Some items may be damaged during heat treatment. Use Caution when heat treating fragile items such as antique books, items made of wood, and other belongings.
- Consult the manufacturer of items in question (such as electronics) for a maximum safe temperature before placing them in the ZappBug Room. Always monitor temperature to ensure that temperature never exceeds safe level.

Hints & Tips

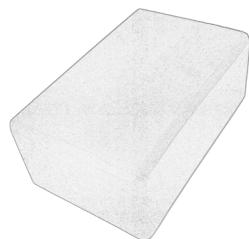
BED BUGS

- Researchers have found that bed bugs at **all life stages** die quickly at temperatures at or above **120°F**.
- Bed bug eggs are nearly translucent and incredibly difficult to detect. A best practice is to **heat treat all items** that may have been in the vicinity of bed bugs even if no bed bugs are found. For pictures of bed bugs and bed bug eggs, please visit zappbug.com/bed-bug-pictures
- Bed bugs can survive for up to **18 months without feeding**. It is critical that all potentially infested items are heat treated or, alternatively, sealed and stored for 18 months.
- Bed bugs can **flatten their bodies** and slip into tiny cracks.
- Bed bugs are unable to climb smooth, nonporous surfaces like those lining the ZappBug Heater™.
- Bed Bugs suffer from thermal shock and are immediately unable to move at temperatures **above 150°F**.
- For more information please visit www.zappbug.com/get-rid-of-bed-bugs

THE ZAPPBUG HEATER™

- Think about heat treating your belongings in the same way that you think of **drying clothes in the sun**. If your belongings are densely packed together, it will take significantly more time for them to reach bed bug killing temperatures. Always use provided ventilation blocks and/or net to ensure maximum air circulation around your belongings.
- Bed bugs suffer from **thermal shock** and cannot escape through the heater duct while the heater is on. Make sure to turn the heater on **before placing potentially infested items inside the ZappBug Heater™**.
- Only use indoors with an ambient room **temperature above 70°F**. The heater works by adding heat to the air from the room in which it is located. If the ambient temperature is below 70°F, the ZappBug Heater™ may not reach bed bug killing temperatures.
- Always **monitor temperature** inside the ZappBug Heater™ with a thermometer. (Wireless thermometer included.)
- Do not place the ZappBug Heater™ directly on cold floors such as concrete. **Always place the ZappBug Heater on surfaces at room temperature (above 70°F)**.

Support Block



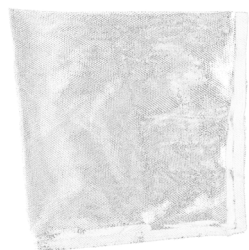
X2

ZappBug™ Power Unit



X1

Support Net



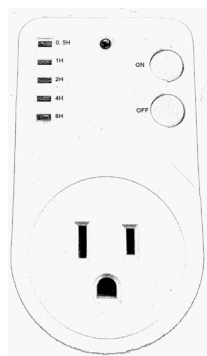
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Carry Bag & Folding Oven



X1

One-Touch Timer



X1

Wireless Thermometer



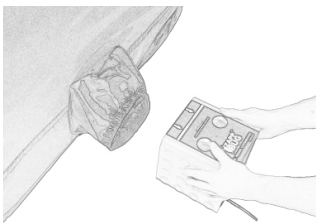
X1

Use & Operation

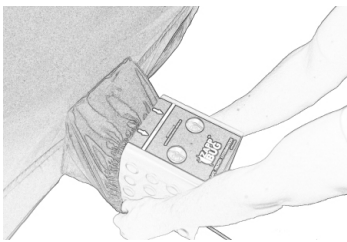
1. Unfold The Oven

Note: It is normal for one side of the oven to appear warped. This allows the oven to easily fold and does not affect functionality. If warping appears excessive, shake oven to ensure that each side panel is fully extended.

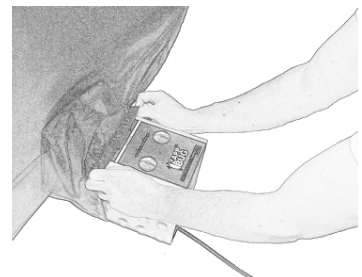
2. Connect Power Unit



Locate Ventilation Tube



Place Base of Heater In Tube



Stretch Tube Around Heater
(Observe "Do Not Cover" markings)

Note: It is normal for small gaps to appear between the textured side of the Heater and the Ventilation Tube. Bed bugs will not escape through these gaps if the Heater is on. Bed bugs experience thermal shock and are not capable of moving toward the Heater. Always ensure that Heater is on when placing potentially infested items inside the ZappBug Oven™.

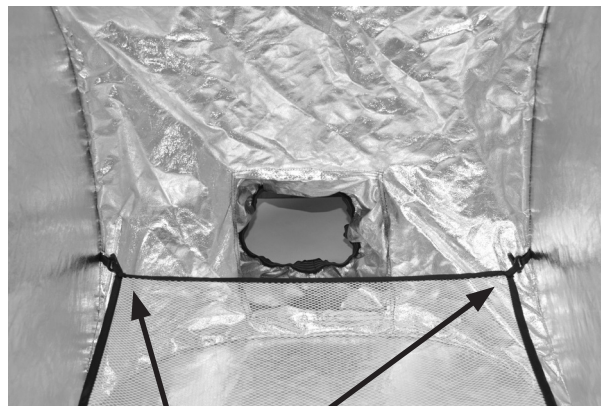
Use & Operation (continued)

3. Select Appropriate Support Configuration

The ZappBug Heater's unique and modular support system is designed to accommodate a wide range of items. Support blocks allow for **ventilation around** rigid, heavy items such as luggage and small furniture. A combination of **Support Blocks** and the **Support Net** allow for ventilation around loose items such as books and clothing. Select the appropriate support configuration for your items as shown below. It is critical that air is allowed to flow freely around the items you are heat treating.



Place Support Blocks **under**
Support Net X2



Attach All Sides of **Support Net**
to loops located inside X6

4. Turn On Heater

Plug heater into included digital timer. After that, plug Digital timer into electrical outlet. Make sure that 8 hours is selected on the side of the digital timer. Press the "on" button located at the front of the digital timer to change the time selected.



Included Digital Timer
(actual appearance may vary)

Safety Note: The ZappBug Power Unit draws up to 1500 watts of electrical power. **Do not use extension cords rated below 1500 watts.**

Use & Operation (continued)

5. Insert Items For Heat Treatment

Place items inside the ZappBug Heater on top of Support Blocks/Support Net. To **ensure adequate airflow**, items should not touch walls or ceiling of the chamber. Place wireless thermometer probe inside deepest (most insulated) location in items being treated. After that, zip the top cover closed.



**Included Wireless
Thermometer**

Hint: Always open luggage and “**fluff**” **items** to ensure air circulation. If items are densely packed, they take longer to heat.

Note: The “Out” temperature reading on the thermometer is the temperature of the probe. If you do not see an “Out” temperature reading remove the batteries from both the probe and the display screen at once, then put them back in the display screen first.

6. Wait Appropriate Time

60 minutes at or above 120°F

It is impossible to know the temperature at every location in your items so we have developed and tested a foolproof strategy to ensure that your heat treatment is effective.

Bed bugs die at temperatures of 120°F or above in less than two minutes. However, they begin dying at **temperatures above 113°F**. Several studies have shown that bed bugs die over a range of temperatures and that the higher the temperature, the less time it takes to kill them. Standard practice for heat treating is to measure the temperature at one, representative location. When the temperature at this location reaches 120°F and is held at 120°F (or above) for one hour, **you can be confident** that any bed bugs in your belongings are dead.

Place the wireless thermometer in the deepest (most insulated) part of your luggage (or item begin treated) and allow the ZappBug Oven™ to run for 60 minutes or longer **after the temperature reaches 120°F**.

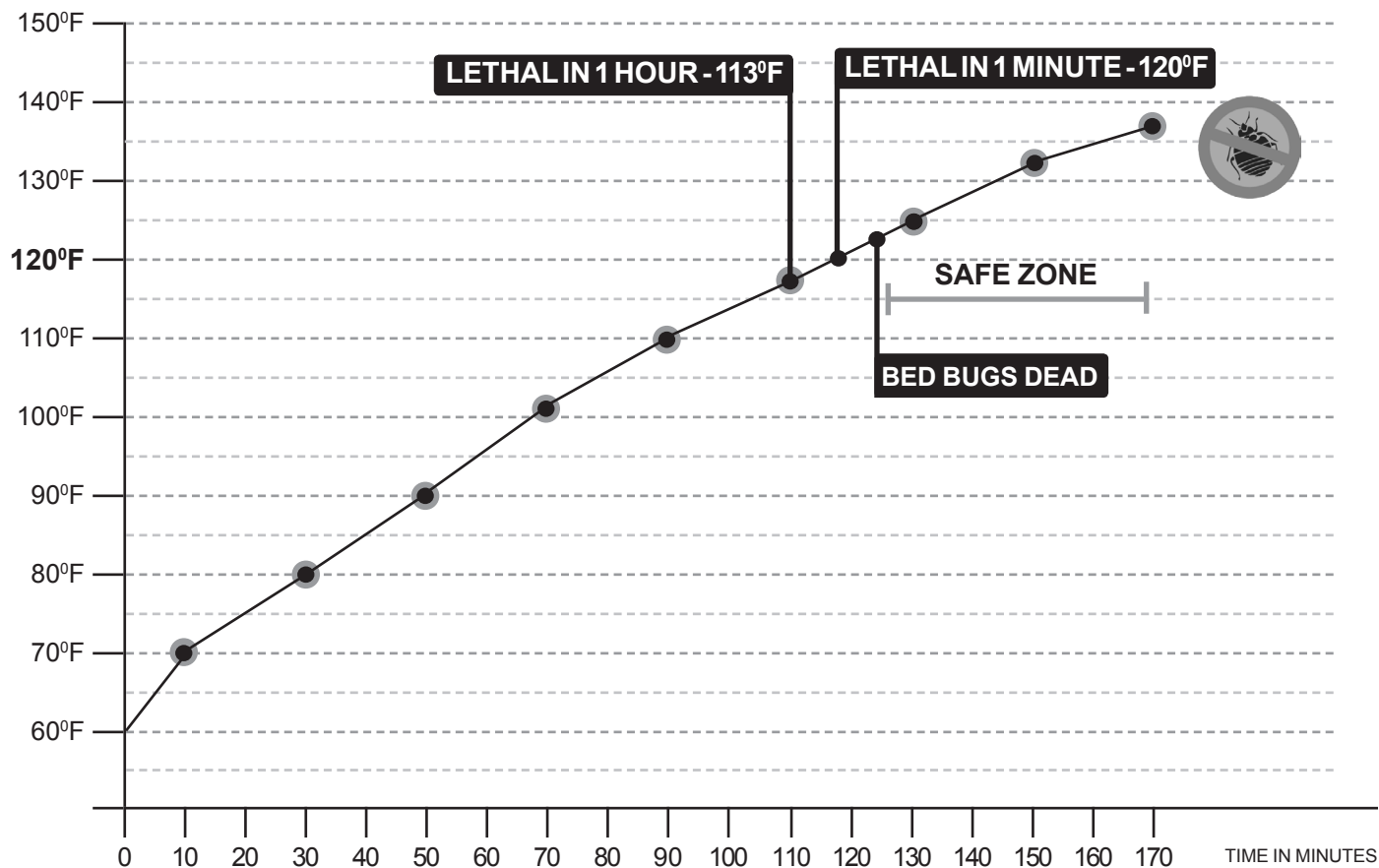
Hint: We suggest setting the included timer to 6 hours and letting it shut off the ZappBug Oven automatically.

Heat Treatment Chart

Typical Heat Treatment

(Actual Treatment Times Will Vary)

TEMPERATURE
INSIDE ZAPPBUG

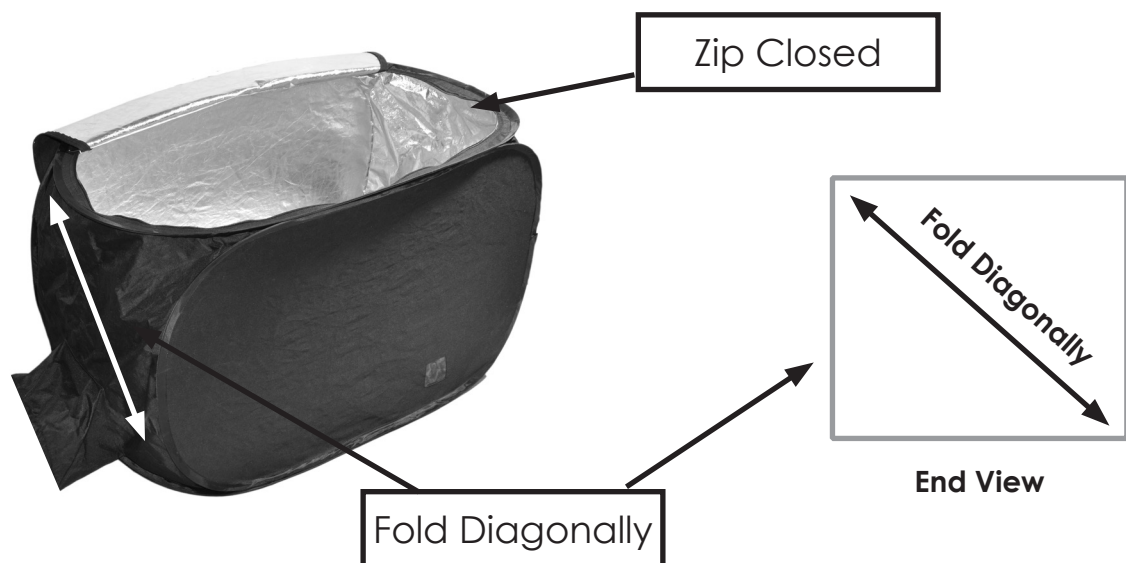


6. Remove Items After Heat Treatment

Hint: If your home is infested with bed bugs, place all items into sealed plastic bags or containers immediately after heat treatment.

7. Folding & Packing Up The ZappBug Heater™

1. Disconnect ZappBug Power Unit
2. Zip the top flap closed (if not already closed)
3. Fold ZappBug Heater by pushing one of the four long edges across to the long edge diagonally opposite.



Store the **folding oven, thermometer, timer, support blocks** and **net** inside the carry bag. Store heater separately.

Common ZappBug Troubleshooting Tips

Thermometer Reset

If you're having issues getting a temperature reading, you may need to do a simple thermometer reset. To do that, take the batteries out of both the sensor and the display screen at once. Then put them back in the display screen followed by the sensor.

It can take a while for the unit to fully heat up (sometimes 2-3 hours or more depending on ambient temperature or the size of the treatment load).

Keep in mind that the display screen may lose signal if it is too far away from the unit, or if the unit heats above 140F. If this happens, simply follow the reset instructions above.

Safety Tip-Over Switch

If you plug in your thermal units and they do not turn on, please check the safety tip-over switch - that will be a little black button on the bottom of the red square thermal unit. This button needs to be pressed in for the thermal unit to turn on and is designed so that if the unit is knocked over (possibly blocking the vents) it turns off for safety. When the thermal unit is plugged into a wall outlet and the red unit is flat on the ground the button should naturally be pressed in and the heater should turn on.

Questions?

Please contact us [before place of purchase](#).

ZappBug's expert staff are here to help! If you have any questions about ZappBug or are experiencing any issues, please don't hesitate to give us a call (or email). Our experts are ready to assist Monday-Friday, 9 AM to 5 PM PST.



(206) 430-5514



service@zappbug.com

Warranty Information

1 Year Limited Warranty for the ZappBug Heater™

ZappBug™ warranty obligations are limited to the terms set forth below:

ZappBug™ warrants this product against defects in materials and workmanship for a period of Three Hundred Sixty Five (365) days from the date of original retail purchase. This warranty is good only to the original purchaser.

What Does This Warranty Cover?

This warranty covers any defects or malfunctions in the ZappBug Heater™. This includes all of the items included with the ZappBug Heater™: the heater, the folding box, the carry case, the support net, the support blocks, the timer and the wireless thermometer. Coverage terminates if you sell or otherwise transfer the ZappBug Heater™.

What Does This Warranty Not Cover?

This warranty does not cover the following:

1. Any defect or malfunction of the ZappBug Heater™ caused by abuse, misuse, neglect, carelessness, or accident.
2. Any defect or malfunction caused by alteration or modification of the ZappBug Heater™.
3. Any defect or malfunction of the ZappBug Heater™ which would not have occurred if instructions in the owner's manual had been followed.
4. The cost of repairing or replacing any electronics that are placed in the ZappBug Heater™. (In our experience, the ZappBug Heater™ operates at temperature ranges that are safe for most electronics, but we do not cover any damage to electronics that might occur while using ZappBug Heater™.)
5. The cost of repairing or replacing any property which is damaged when the ZappBug Heater™ does not work properly.
6. The cost of repairing or replacing any property which is damaged due to not following the instructions in the owner's manual.

What is the Period of Coverage?

Coverage under this warranty is for 365 days from the original date of purchase. Coverage terminates if you sell or otherwise transfer the ZappBug Heater™.

What Will We Do to Correct Problems?

If there is a problem, we will replace or repair (our option) the ZappBug Heater™, free of charge. You are responsible for shipping charges to send the ZappBug Heater™ to us for repair or replacement. We are responsible for shipping charges to send the repaired or replaced ZappBug Heater™ to you.

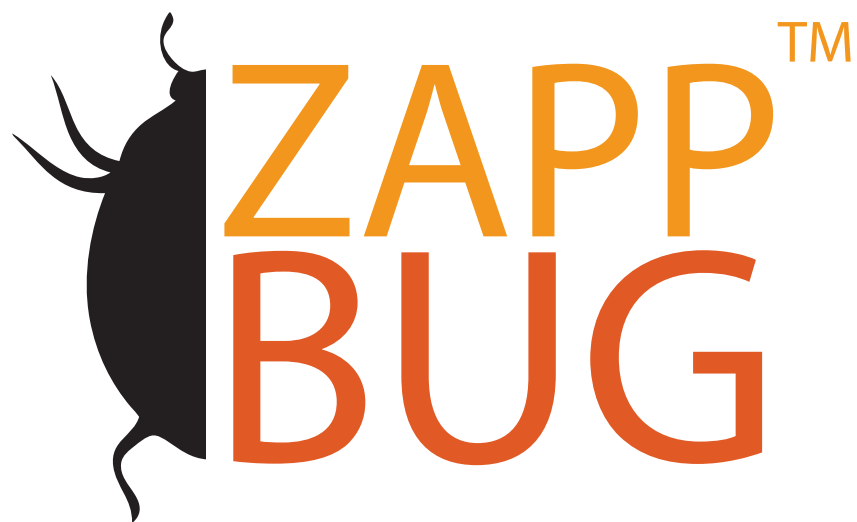
How Do You Get Service if There is a Problem?

Email us at service@zappbug.com or call us at (206)430-5514. Tell us the problem and when and where you purchased the ZappBug Heater™. We will email you back with instructions on how to send us the ZappBug Heater™ for repair or replacement.

How State Law Applies

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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ZappBug™ Customer Service
service@zappbug.com
206-430-5514
(please **email** for fastest response)