

The ZappBug Oven 2™

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.

Warning

- 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 vent on folding box. This can cause damage to the heater.
- Do not place flammable objects or aerosols inside the ZappBug Oven™.
- 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 Oven. Always monitor temperature to ensure that temperature never exceeds safe level.
- Wait for items to cool after heat treatment. Hot items may cause burns.

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 Oven™.
- 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 OVEN 2™

- 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 Oven™**.
- 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 Oven™ may not reach bed bug killing temperatures.
- Always **monitor temperature** inside the ZappBug Oven™ with a thermometer. (Wireless thermometer included.)
- Do not place the ZappBug Oven™ directly on cold floors such as concrete. **Always place the ZappBug Oven on surfaces at room temperature (above 70°F)**.

Components Included

The Following components are required for proper use of this product. If you did not receive all of the components listed below, contact ZappBug immediately (email: support@ZappBug.com). Some components may appear different from the representations below.

Support Block



X4

ZappBug™ Heater



X2

Support Net



X1

Carry Bag & Folding Oven



X1

One-Touch Timer



X2

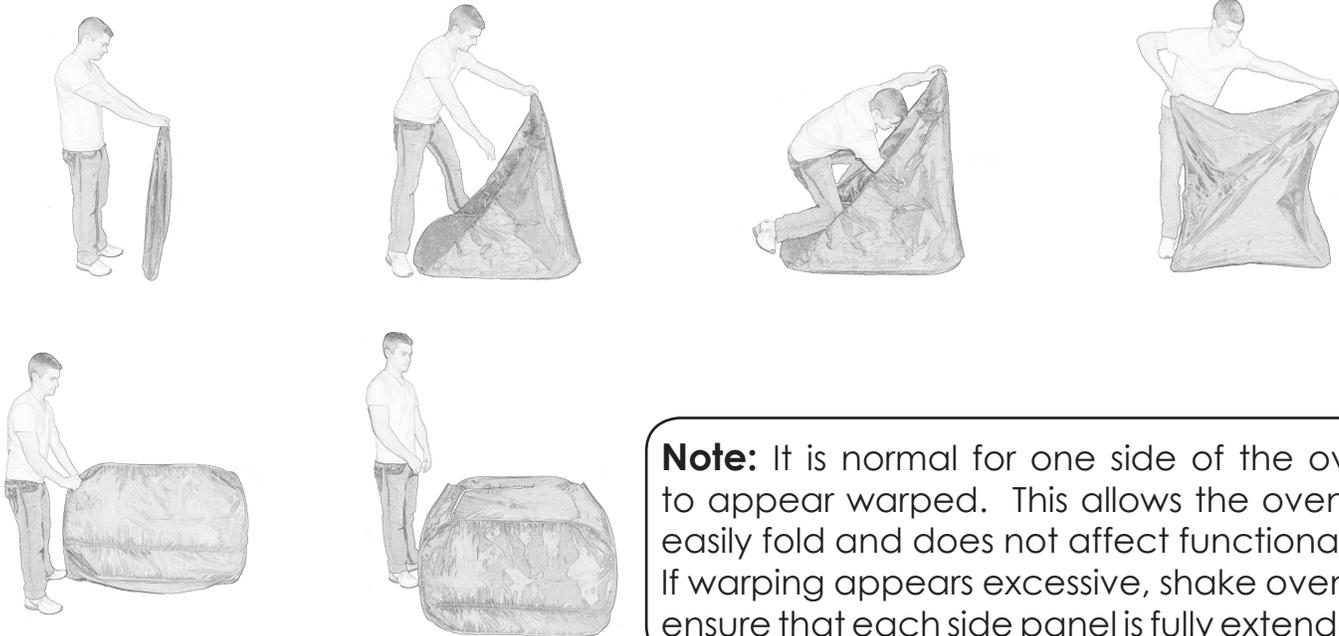
Wireless Thermometer



X1

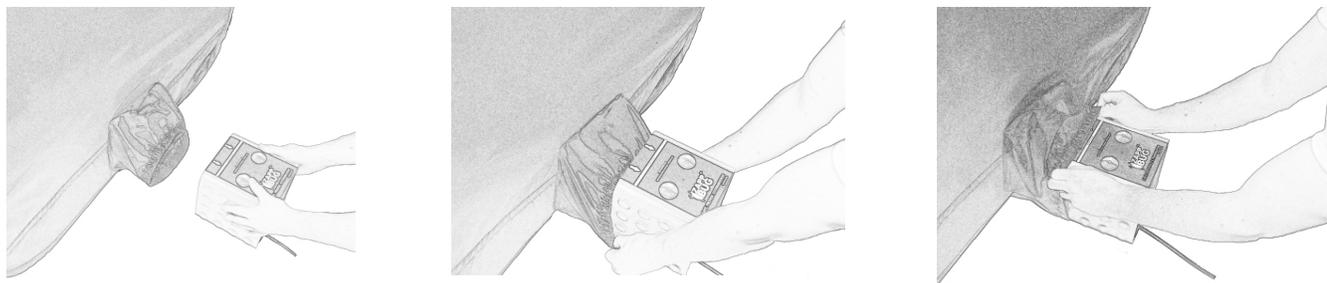
Use & Operation

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 Heaters (X2)



Locate Ventilation Tube

Place Base of Heater In Tube

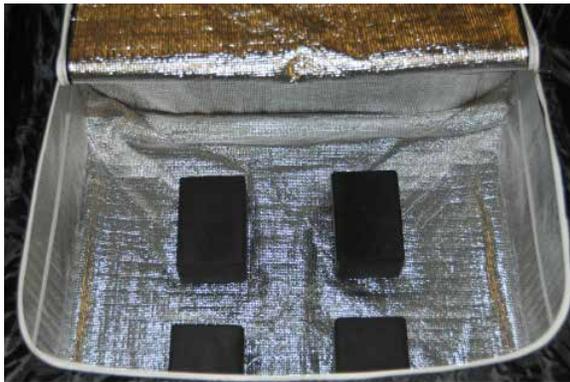
Stretch Tube Around Heater
(Observe "Do Not Cover" markings)

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 heaters are on when placing potentially infested items inside the ZappBug Oven™.

3. Select Appropriate Support Configuration

The ZappBug Oven'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.

Support Blocks



Support Net



Attach all Toggles of **Support Net** in the Oven

4. Locate Two Independent Power Outlets

NOTE: Each heater must be powered from it's own circuit. Typical residential and commercial buildings have one circuit per room. Use the included extension cord to reach outlets in other rooms (where necessary).

One power extension cord is included in each ZappBug Oven 2. Plug one heater directly into a nearby electrical outlet.

Locate an electrical outlet in another room or area that operates on a separate electrical circuit. Typically, each room will have it's own independent electrical circuit. Use the included power extension cord to connect the remaining heater to this separate electrical outlet.

5. Turn On Heaters

Plug each heater into the included timers, then plug included timers into outlets. Select the appropriate time setting on the timer by pressing the “on” button to cycle through the time options after the timer is plugged in.



Included Timer

We recommend using the 8 hour setting for large loads and the 4 hour setting for small to medium loads. Always use the included thermometer to confirm that temperature reaches lethal levels (**see step 7**).

Safety Note: Each heater draws 1500 watts of electrical power. **Each heater should be plugged into separate circuits, using the included extension cord if necessary.**

Use & Operation (continued)

6. Insert Items For Heat Treatment

Place items inside the Oven on top of Support Blocks/Support Net. To **ensure adequate airflow**, items should not touch walls or ceiling of the Oven. 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.

7. 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 being treated) and allow the ZappBug Oven™ to run for 60 minutes or longer **after the temperature reaches 120°F**.

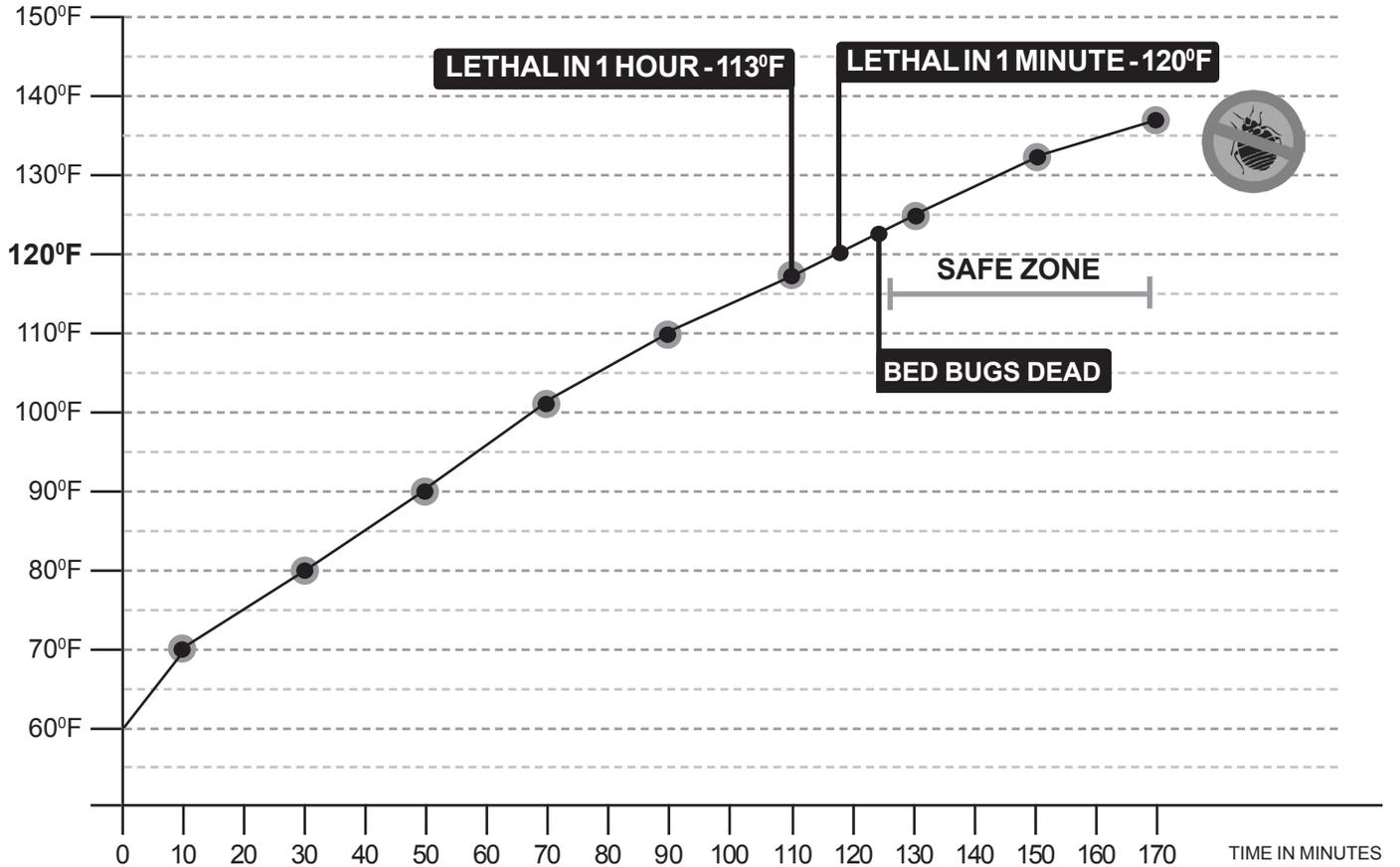
Hint: We suggest setting the included timer to 8 hours and letting it shut off the ZappBug Oven automatically. Smaller loads may take only 4 hours.

Heat Treatment Chart

Typical Heat Treatment

(Actual Treatment Times Will Vary)

TEMPERATURE
INSIDE ZAPPBUG



8. Remove Items After Heat Treatment

WARNING: Items may be hot after heat treatment. Wait for items to cool before handling. Items such as metal zippers can remain hot after heat treatment and cause burns.

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

9. Folding & Packing Up The ZappBug Oven 2™



Zip Top Closed, Leaving 4" Gap for Air to Escape



Place Oven on Side
Step On Corner &
Collapse Oven as Shown



Allow Air to
Escape



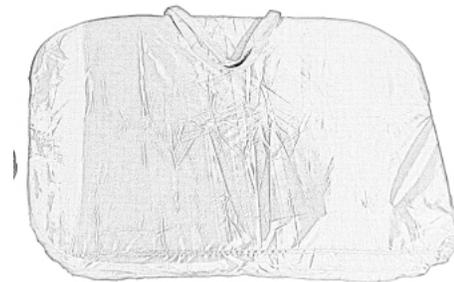
Ensure Side Panels
Fold Flat



Fold Sides Inward



Complete Fold



Store Oven & Support Blocks
in Carry Bag

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

Warranty Information

One Year Limited Warranty for the ZappBug Oven 2™

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 One Hundred Twenty (120) 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 Oven™. This includes all of the items included with the ZappBug Oven™: 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 Oven™.

What Does This Warranty Not Cover?

This warranty does not cover the following:

1. Any defect or malfunction of the ZappBug Oven™ caused by abuse, misuse, neglect, carelessness, or accident.
2. Any defect or malfunction caused by alteration or modification of the ZappBug Oven™.
3. Any defect or malfunction of the ZappBug Oven™ 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 Oven™. (In our experience, the ZappBug Oven™ 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 Oven™.)
5. The cost of repairing or replacing any property which is damaged when the ZappBug Oven™ 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 1 Year (365 days) from the original date of purchase. Coverage terminates if you sell or otherwise transfer the ZappBug Oven™.

What Will We Do to Correct Problems?

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

How Do You Get Service if There is a Problem?

Email us at service@zappbug.com or call us at (206) 237-1019. Tell us the problem and when and where you purchased the ZappBug Oven™. We will email you back with instructions on how to send us the ZappBug Oven™ 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.



ZappBug™ Customer Service
service@zappbug.com
(206) 237-1019
(please **email** for fastest response)