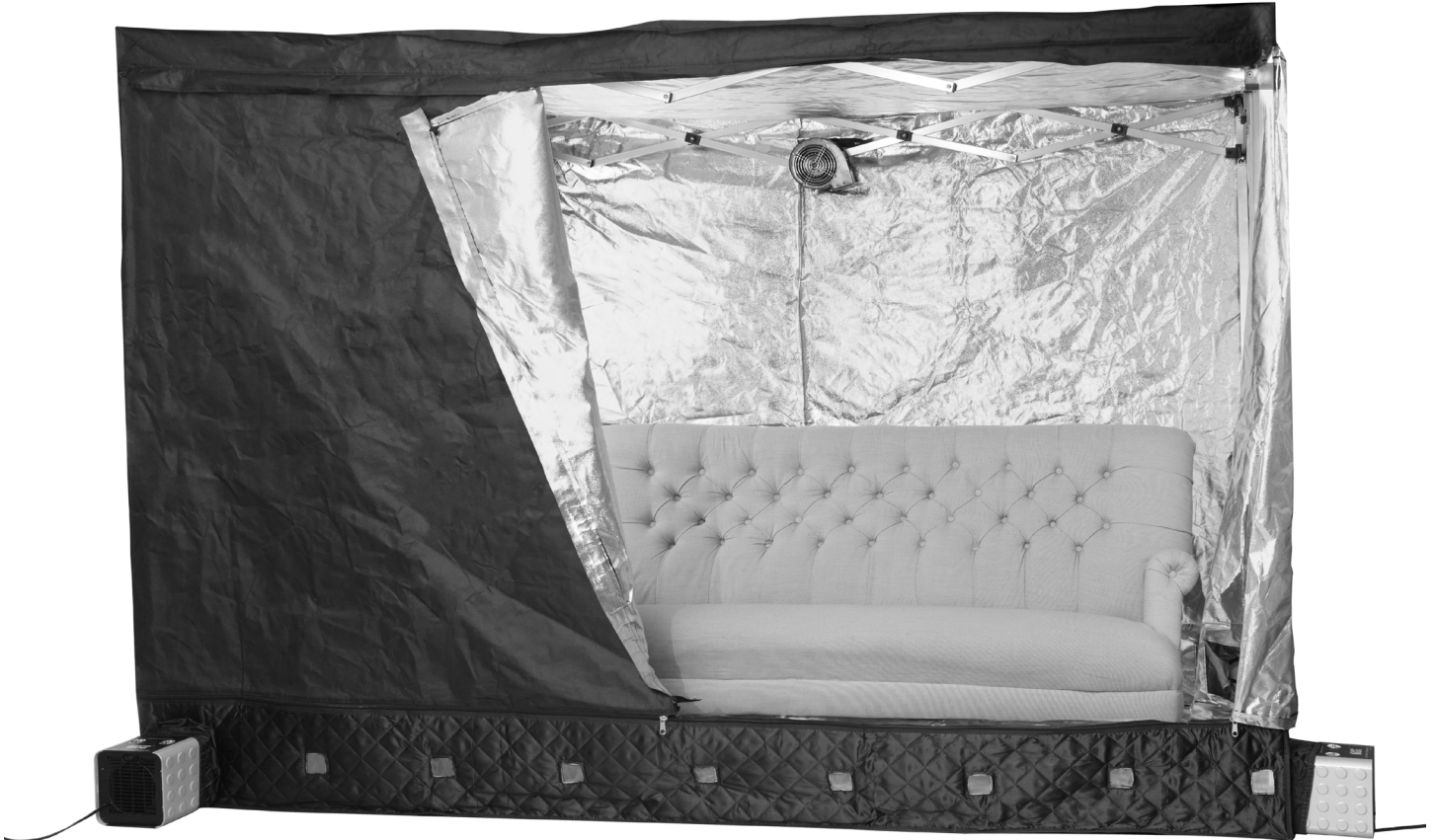


The ZappBug Room™

Owner's Manual



**IMPORTANT NOTICE:
Read Warnings Before Use!**

SAFE PROVEN EXTERMINATION

V2.01.19

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Table of Contents

- Important Safety Information.....4
- WARNING!.....5
- Hints & Tips.....7
- Components Included.....8
- Use & Operation.....10
 - 1. ZappBug Room Assembly.....10
 - 2. Connect All Four Heating Units.....13
 - 3. Connect Recirculation Fan to Room Frame.....13
 - 4. Zip the Room Closed.....14
 - 5. Wireless Thermometer Set Up.....14
 - 6. Turn on Heating Units.....17
 - 7. Insert Items for Heat Treatment.....18
 - 8. Run Time.....19
 - 9. Remove Items After Heat Treatment.....19
 - 10. Folding and Storing the ZappBug Room19
- Heat Treatment Chart.....20
- Troubleshooting.....21
- Warranty Information.....23



Important Safety Information

You must comply with all safety information and operating instructions when using this product. Please read all Warnings outlined in this manual.

Failure to comply could result in personal injury, damage to property, or fire hazards.



Read This WARNING! Before Proceeding

WARNING!

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

High-power appliances require more electric current than most household items. Old or 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.

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. Inspect outlets and plugs after each use

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

Warning: Extension Cords

Some extension cords are not adequate to carry the load of current drawn by this heating unit without becoming dangerously overheated. If an extension cord *must* be used, do not use a cord rated less than *1500 watts* or *15 amps*, and of a minimum size of 16 gauge. Only use 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 heating 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. Old or faulty electrical wiring could lead to damage, injury, or fire. If an electrical cord appears deformed or feels hot to the touch, unplug it immediately and contact ZappBug customer service.

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 the ZappBug Room 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 heating unit to overheat and pose a fire hazard. Always maintain **6 or more inches of clearance** around the heating unit during operation.
- Do not use outside or in a wet environment. This product is designed for indoor use only.
- Do not reach into or insert objects into ventilation fan while the heating unit is running. This may result in personal injury or damage to the unit.
- 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 made of materials such as antique leather and wood.
- Consult the manufacturer of items in question, such as electronics, for a maximum safe temperature before placing them in the ZappBug Room. Always monitor the temperature to ensure that it does not exceed the recommended 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 the lining of the ZappBug Room.
- For more information please visit zappbug.com/get-rid-of-bed-bugs.

THE ZAPPBUG ROOM

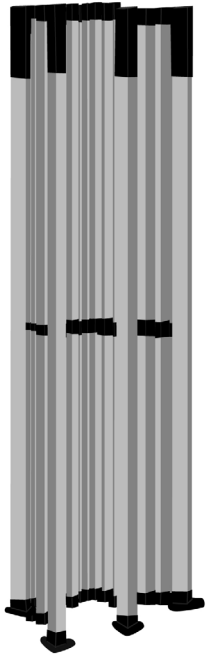
- Always use provided support blocks and/or net to ensure maximum air circulation around your belongings. If your belongings are densely packed together it will take significantly more time for them to reach bed bug killing temperatures.
- Make sure to turn the heating unit on **before placing potentially infested items inside the ZappBug Room**.
- Only use indoors with an **ambient room temperature at or above 70°F**. The heating unit 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 Room may not reach bed bug killing temperatures.
- Always **monitor the temperature** inside the ZappBug Room with the thermometer and thermometer probe provided.
- Do not place the ZappBug Room directly on cold floors such as concrete. **Always place the ZappBug Room on surfaces at or 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 by phone at (206)-430-5514 or by e-mail at service@ZappBug.com.

Note: Some components may appear different from the representations below.

Tent Frame



X1

Wireless Thermometer and Three Probes



X1

Tent Carry Bag



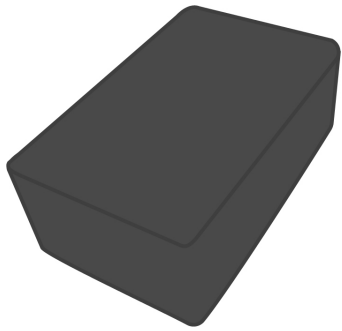
X1

ZappBug Heating Unit with Integrated Timer



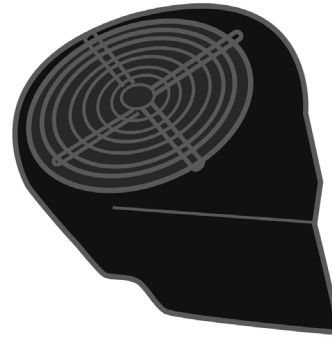
X4

Support Block



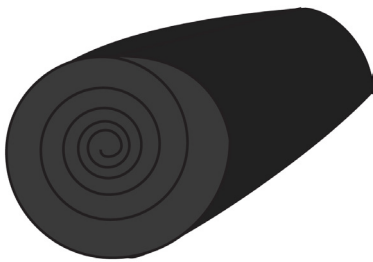
X4

Recirculation Fan



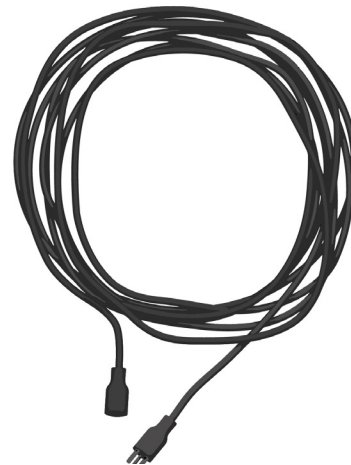
X1

Room Tent



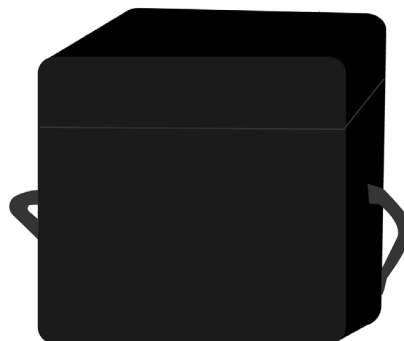
X1

Extension Cord



X3

Accessory Carry Bag



X1

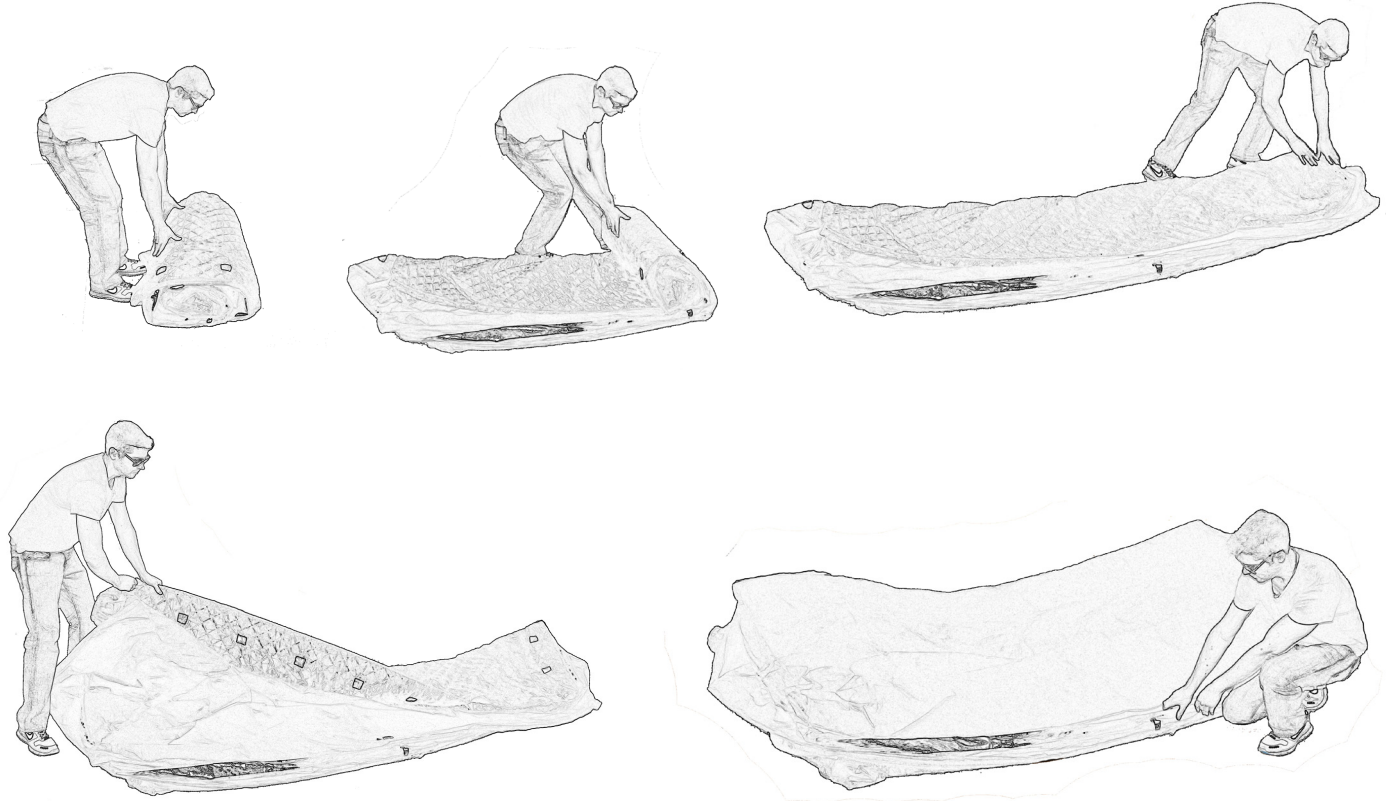
Use & Operation

A video demonstration of the ZappBug Room assembly is available at: zappbug.com/zbr-video.

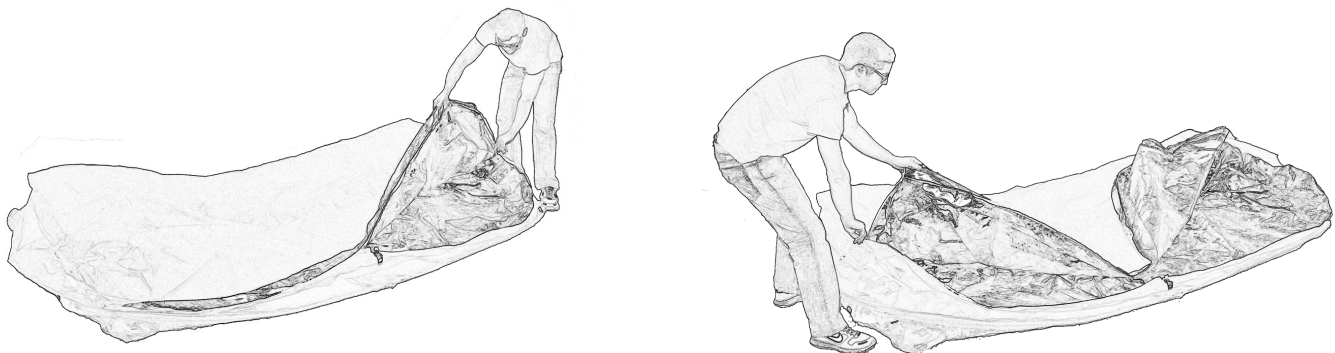
The video can be found in the product description.

1. ZappBug Room Assembly

Unfold The ZappBug Room with Quilted Side Down

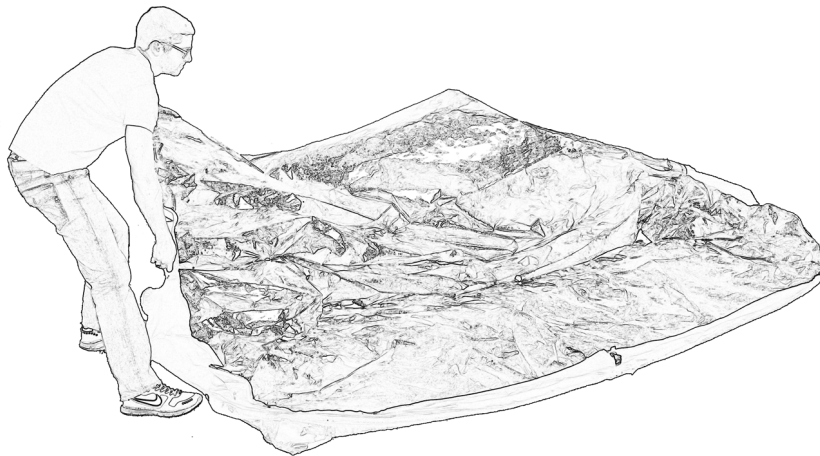


Unzip All Five Zipper Pulls

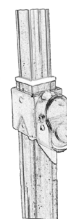


Use & Operation (continued)

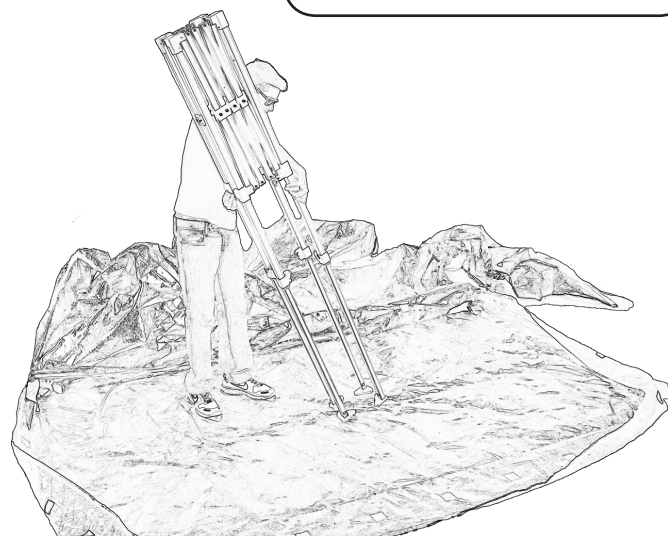
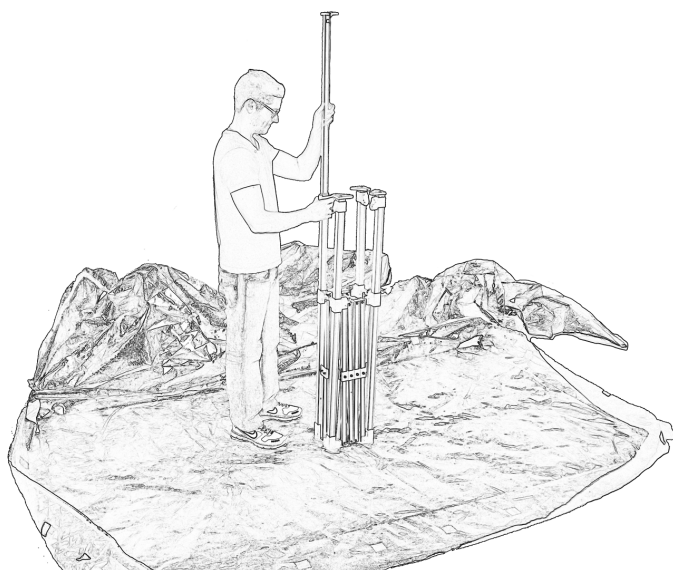
Unfold All Sides & Expose Base



Note: Extend legs until locking brackets click into position.

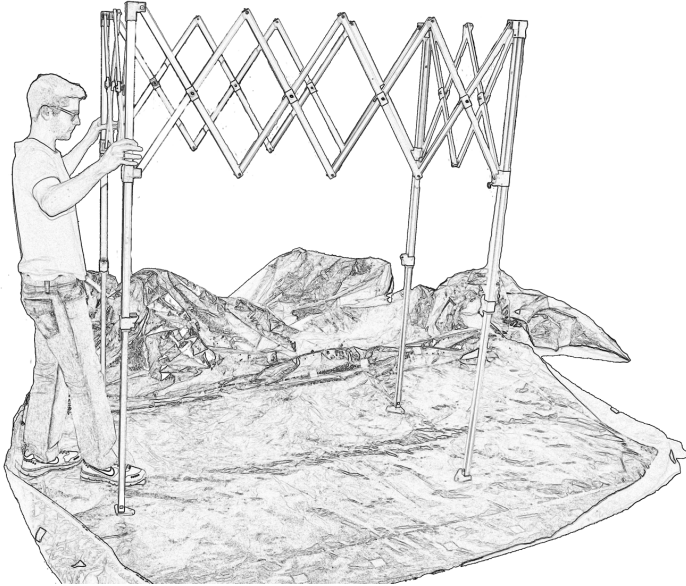


Extend Room Frame Legs

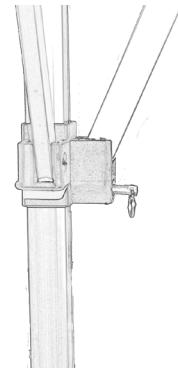


Use & Operation (continued)

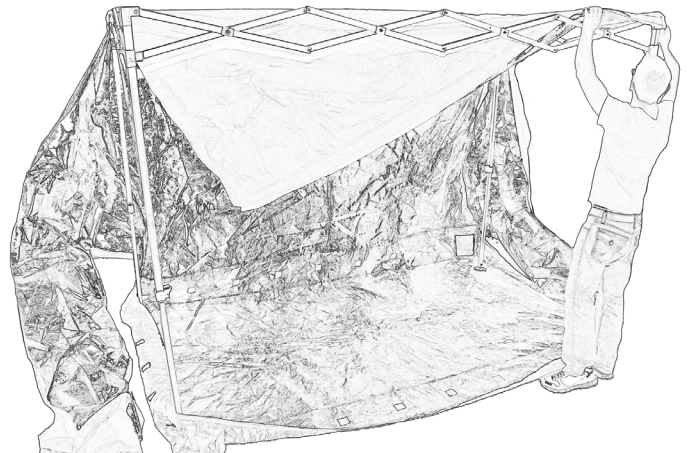
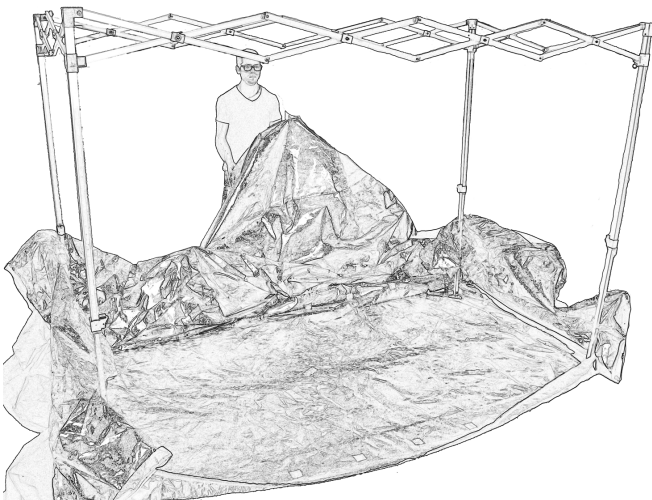
Expand Room Frame



Note: Expand frame until locking pins click into fixed position on all four legs.

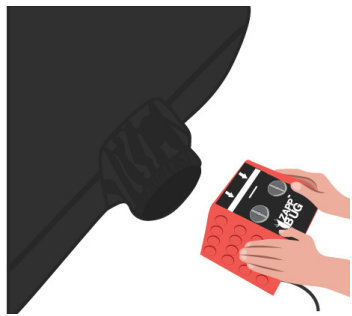


Assemble Room on Room Frame



Use & Operation (continued)

2. Connect All Four Heating Units



Locate Ventilation Tube



Place Base of Heating Unit in Tube



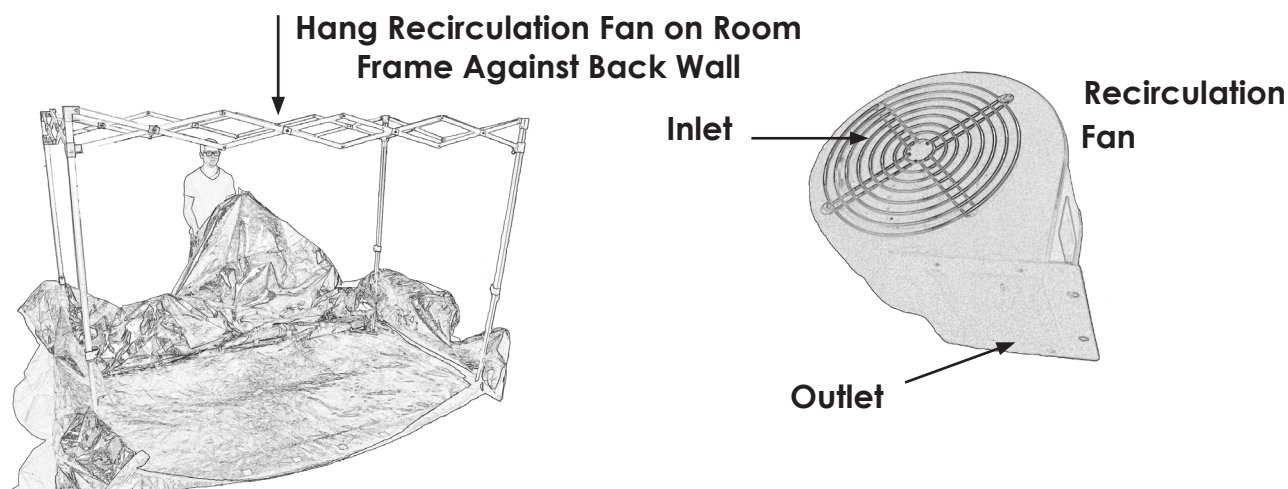
Stretch Tube Around Heating Unit
(Observe "Do Not Cover" markings)

Safety Note: Always maintain a minimum of 6 inches around the heating unit when operating

Note: It is normal for small gaps to appear between the textured side of the heating unit and the ventilation tube. Bed bugs **will not escape** through these gaps if the heating unit is on. Bed bugs experience thermal shock and are not capable of moving toward the heating unit. Always ensure that the heating unit is on when placing potentially infested items inside the ZappBug Room.

3. Connect Recirculation Fan to Room Frame

The included recirculation fan mounts to the room frame. Position the recirculation fan in the middle of the frame against the back wall as shown below. It is normal for the recirculation fan to tilt slightly to one side. Slide the recirculation fan power cord through the small opening on the middle top of the back wall. The recirculation fan may be plugged into the same electrical circuit or outlet as one of the four heating units. The fan an inlet should face into the ZappBug Room and the fan outlet should be directed at the floor.



Use & Operation (continued)

4. Zip the Room Closed



5. Wireless Thermometer Set Up

The ZappBug Room comes with an included thermometer base station and three remote probes.



Thermometer Base Station



Thermometer Probes

Note: Setup thermometer base station first

Use & Operation (continued)

Thermometer Base Station Set Up

1. Remove the battery door on the back of the base station as, shown in **Figure 1** below.
2. Insert one AA battery. All of the LCD segments will light up for a few seconds to verify that all segments are operating properly.
3. The thermometer base station will instantly display the ambient temperature. The probe temperatures will update on the display within a few minutes after you place batteries in the thermometer probes.

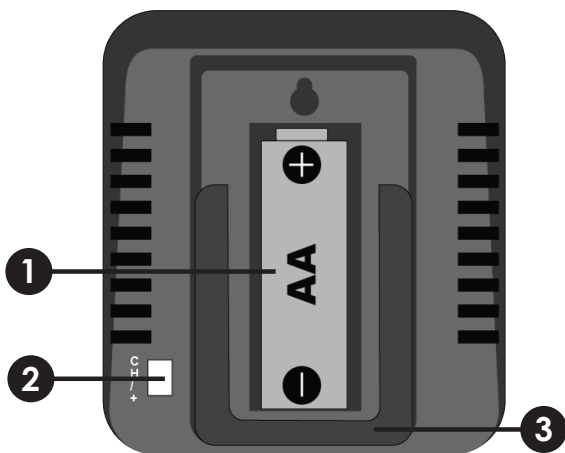


Figure 1

Figure 1

1. Battery Compartment
2. CH/+ Button
3. Stand Mount

IMPORTANT: Insert batteries and set up thermometer base station first

Switch Channels

1. Press **[CH/+]** button on the back of the thermometer base station to view the different thermometer probe temperatures. **See Figure 1.** They will display in the following sequence:

CH1 - CH2 - CH3 - (CH)

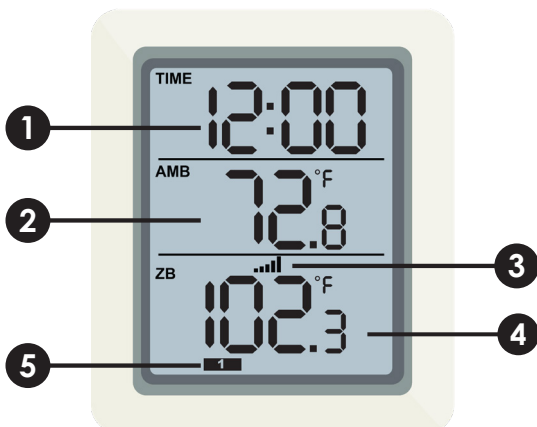


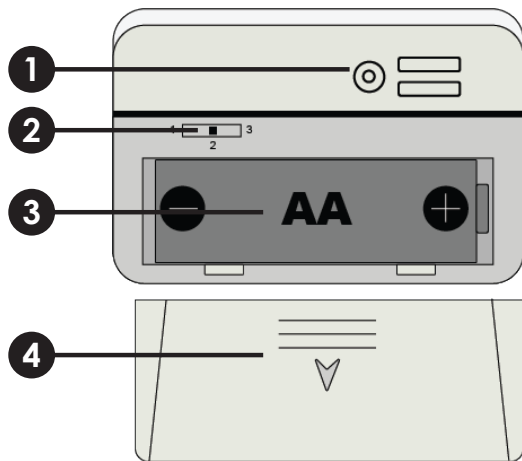
Figure 2

Figure 2

1. Time
2. Ambient Room Temperature
3. Reception Icon
4. Probe Sensor Temperature
5. Current Probe Sensor Channel

Use & Operation (continued)


Thermometer Probe Set Up



Thermometer Probe

1. Wireless Transmitter LED
2. Channel Switch
3. AA Battery
4. Battery Door

Remove the battery door on the back of the thermometer probe by sliding the door down and insert one AA battery.

1. After inserting the battery, the remote sensor LED indicator will light for 4 seconds, and then flash once per minute, thereafter. Each time it flashes, the sensor is transmitting data.
2. Close the battery door. While in search mode, the reception icon  will flash on the thermometer base station. **See Figure 2.**
3. Place the wireless thermometer probe in the deepest, most insulated part of the item being treated. Allow the ZappBug Room to run for 60 minutes or longer after the temperatures reaches 120°F.
4. If you are not present while the unit is running, we advise setting the timers to 8 hours, however this is generally more time than required for the ZappBug Room to reach 120°F and maintain it for one hour.
5. If the base station does not update, view troubleshooting tips on page 21.

Use & Operation (continued)

6. Turn on Heating Units

1. Plug the heating unit into power outlet.
2. Place power switch in ON position.
3. Press the TIMER button to select desired run time.

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 and thermometer probe to confirm that the temperature reaches lethal levels. See Heat Treatment Chart **on page 20** for more information.

Safety Note: Each heating unit draws 1500 watts of electrical power. Do not use extension cords rated below 1500 watts. Each heating unit should be plugged into a separate circuit, using the included extension cord if necessary.

Warning Light

If the unit overheats, the warning light will turn on and the unit will begin to beep.

If the warning light is on, turn the heating unit off by switching the power switch to the OFF position. Remove the heating unit from the ventilation tube and allow it to cool for 20 minutes.

The unit overheats when hot air is being blocked from exiting the thermal unit. **Before restarting the treatment**, be sure that all ZappBug enclosure contents are at least 6 inches away from the heating unit to ensure proper air circulation.

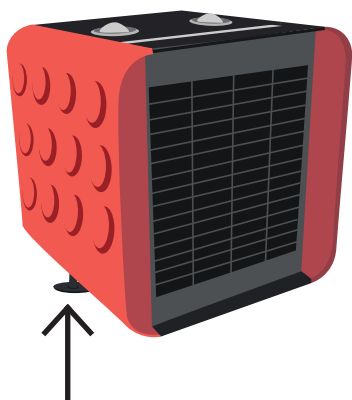
If the problem persists, contact ZappBug customer service.

** The Room requires independent power circuits for each Thermal Unit.*



Use & Operation (continued)

Safety Tip Over Switch



Safety Tip Over Switch

If the heating unit and timer are plugged into an outlet, and the timer is ON, the heating unit should automatically begin to run. If the unit is plugged in but not operating, check the safety tip over switch located on the bottom of the heating unit. The safety tip over switch is a small black button that must be pressed in to run the heating unit. This switch is a safety feature to stop the unit from running if it is tipped over.

Safety Note: The heaters draw 1500 watts of electrical power. Do not use extension cords rated below 1500 watts. Each heating unit should be plugged into a separate circuit, using the included extension cord if necessary.

7. Insert Items for Heat Treatment

The ZappBug Room is a highly versatile heat treatment chamber. Place the items you are heat treating in the room. Use the included foam blocks to raise furniture above the floor of the room for circulation. Arrange items loosely and avoid stacking items in piles. If items are placed too close to the heaters, or if airflow inside the unit is obstructed, it is possible that the heater's internal safety fuse will pop. To ensure adequate air flow, keep all contents at least 4 inches from the walls of the ZappBug Room.

Third party items such as shelving and clothing racks may be used to facilitate the heat treatment of clothing and other items. Appropriate shelving and racks should be available at your local hardware store.

Place the three wireless thermometer probes inside the deepest, most insulated locations in items being treated.

Note: If items are densely packed, they take longer to reach the desired temperature. Better air circulation will heat your items faster and ensure bed bug killing temperatures. Always use included thermometer probes to ensure that temperatures reach the lethal temperature of 120°F. Always open luggage and arrange items loosely to ensure proper air circulation.

Use & Operation (continued)

8. Run Time

Once the remote sensor reaches a temperature of 120°F or above, run the heating unit for 60 minutes.

Bed bugs die at temperatures of 120°F or above in less than two minutes. The higher the temperature, the less time it takes to kill them. The 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.

9. 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 treated items into sealed plastic bags or containers immediately after heat treatment to prevent re-exposure.

10. Folding and Storing the ZappBug Room

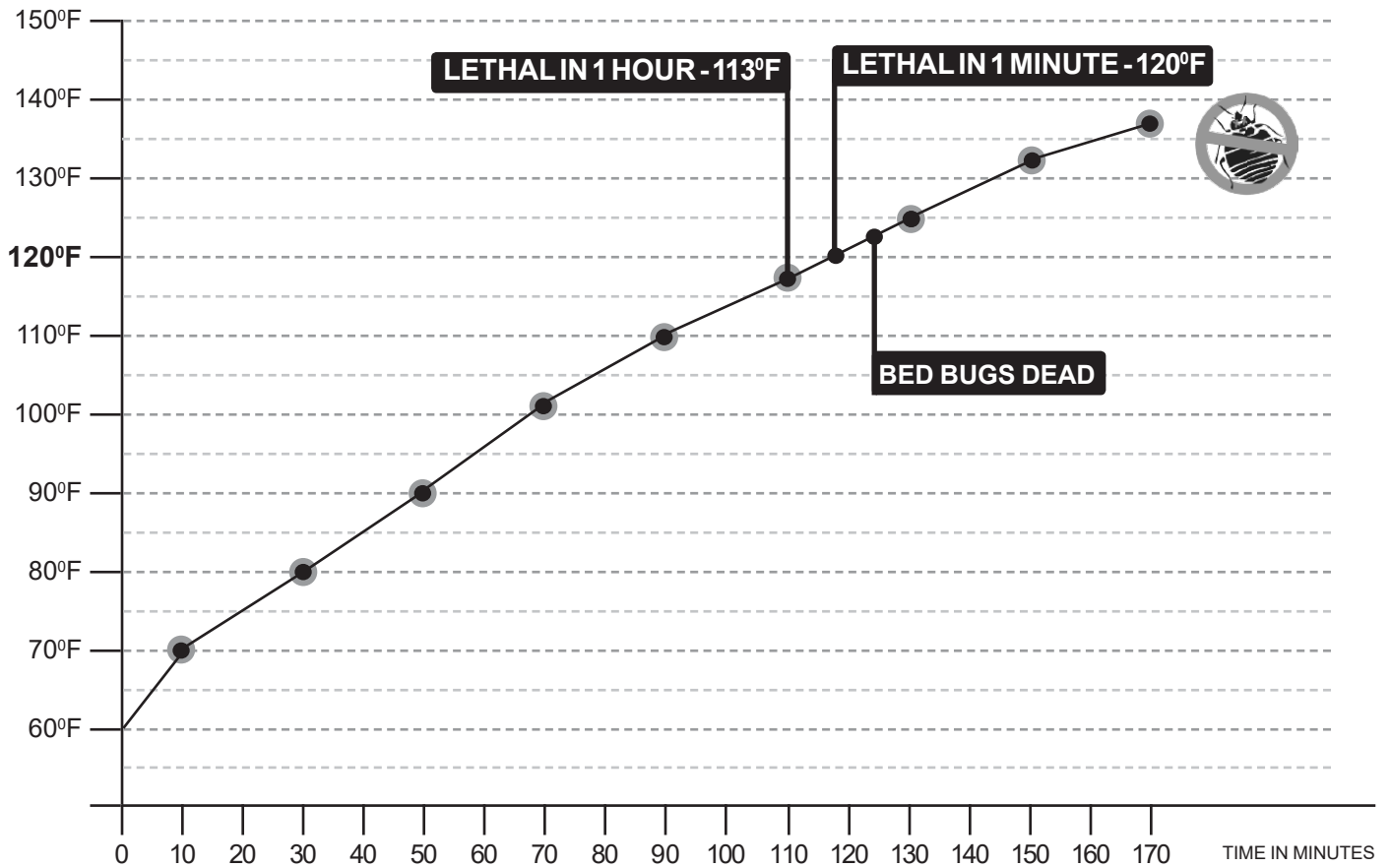
Turn off and unplug all heating units. Reverse steps 1-5 and store the ZappBug Room and accessories in the two included carry bags.

Heat Treatment Chart

Typical Heat Treatment

(Actual Treatment Times Will Vary)

TEMPERATURE
INSIDE ZAPBUG



PEST	TREATMENT TEMPERATURE	HOW LONG BEFORE THEY DIE	PEST	TREATMENT TEMPERATURE	HOW LONG BEFORE THEY DIE
Ants	120°F	5 mins	Termites	125°F	10 mins
Bed Bugs	120°F	1 min	Scabies	122°F	10 mins
Cockroaches	130°F	7 mins	Lice	130°F	30 mins
Dust Mites	140°F	8 mins	Moths	120°F	30 mins
Fleas	140°F	10 mins	Carpet Beetles	120°F	30 mins

ZappBug recommends adding one hour to the suggested treatment time to ensure extermination.

Troubleshooting

Thermometer Reset

If you're having issues getting a temperature reading, you may need to reset the thermometer and probe. To do that, remove the batteries from the sensors and the display screen at the same time. Put batteries back in the **display screen first**, followed by the probe.

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

Thermometer Probe Channel

If you are aren't able to receive a signal from the thermometer probe you may need to set the probe channel. To do that, take the back off of each thermometer probe and change the channel by sliding the button to position 1, 2, or 3. Each probe needs to be on its own channel (1, 2, 3) in order to monitor treatment correctly.

Safety Tip Over Switch

If you plug in the heating units and they do not turn on, first check that the heating unit top switch is ON. Next, check the safety tip over switch which is a small black button on the bottom of the red square heating unit. This button needs to be pressed in for the heating 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 heating unit is plugged into an appropriate power outlet and is flat on the ground, the button should naturally be pressed in and the heating unit should turn on.

Getting Up to Temperature

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).

The most common reasons why the unit struggles to get up to 120°F are ambient conditions and item arrangement. The ZappBug Room works best in rooms that are 70°F or above.

Whenever possible do not place the ZappBug Room on concrete flooring. If the ZappBug Room must be run on a concrete floor, place insulation such as cardboard or area rugs between the ZappBug Room and the floor in order to limit heat loss.

Always arrange items as spread out as possible to allow air to flow easily throughout the ZappBug Room. If necessary, you may need to purchase shelving to more easily elevate small items from the floor and separate them from each other.

Circuits Popping

The recirculation fan can be on the same circuit as one of the heating units, but make sure each heating unit is on its own circuit to avoid electrical overload.

Notes: _____

Questions?

Please contact ZappBug directly 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 contact Customer Service by phone or e-mail. Our experts are ready to assist Monday-Friday, 9a.m. to 5p.m. PST.

 (206) 430-5514

 service@zappbug.com

Warranty Information

One Year Limited Warranty for the ZappBug Room™

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 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 Room. This includes the ZappBug Room items such as: four heating units, three extension cords, one recirculation fan, two carry bags, four support blocks, one tent frame, one ZappBug Room Tent, and one wireless thermometer set with three probes. Coverage terminates if you sell or otherwise transfer the ZappBug Room.

What Does This Warranty Not Cover?

This warranty does not cover the following:

1. Any defect or malfunction of the ZappBug Room caused by abuse, misuse, neglect, carelessness, or accident.
2. Any defect or malfunction caused by alteration or modification of the ZappBug Room.
3. Any defect or malfunction of the ZappBug Room 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 Room. (In our experience, the ZappBug Room 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 Room.)
5. The cost of repairing or replacing any property which is damaged when the ZappBug Room 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 Room.

What Will We Do to Correct Problems?

If there is a problem, we will replace or repair (at ZappBug's discretion) the ZappBug Room, free of charge. You are responsible for shipping charges to send the ZappBug Room to us for repair or replacement. We are responsible for shipping charges to send the repaired or replaced ZappBug Room to you.

How Do You Get Service if There is a Problem?

E-mail us at service@zappbug.com or call us at (206) 430-5514. Tell us the problem and when and where you purchased the ZappBug Room. We will e-mail you back with instructions on how to send us the ZappBug Room 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) 430-5514

Experts are waiting to assist
9a.m.-5p.m. PST, Monday-Friday