

INSTRUCTIONS FOR ELITE 8 BED BUG HEATER



STEP 1

Inspect your Elite 8 for damage – Do not use if damaged. Check all heating elements to make sure everything works and nothing was damaged from shipping. If damaged from shipping do not use and contact us immediately at 877-375-0005.



STEP 2

Always check for fire sprinkler's installed in a building. Keep the heat level at fire sprinkler head a minimum of 30° F below the trigger temperature of the fire sprinkler. Place the sprinkler head protector into position with small ice packs. Make sure that the amount of ice in the cover allows the fire sprinkler head to fit inside cover without touching the ice packs.



STEP 3

Turn off any AC or Heater units within the unit. Cover bathroom exhaust fan grills and any A/C air returns with tape or similar material to reduce heat loss via thermal stacking. Remember that heated air naturally rises. By focusing the energized air directly over the floor coverings, and along the walls and furniture, the heated air will heat the treatment area from the ground up.

NOTE: Walls and ceilings made of block or concrete require more heat because they are more conductive of energy than drywall. This means 1 heater will heat less space when you have walls and/or ceilings with block or concrete. 50% more power is a general rule for these rooms. All buildings are not created equal and more conductive materials take more energy to heat.



STEP 4

Cover single pane windows with reflective insulating material such as Reflectix.



STEP 5

Pull all furniture, chairs, couches, beds, headboards, nightstands, etc. at least 6 inches away from the walls of the room to allow airflow along the walls. If the headboard is attached to the wall, leave it in place. Be sure to direct heated air low to the floor by pointing electric heaters towards carpeting. Aim heaters towards floor coverings and hard to heat infested areas such as the head boards.

Utilize axial fans to move energized air into stagnant sections of the room.



STEP 6

Slightly open any cupboards and drawers approximately 4 to 6 inches.



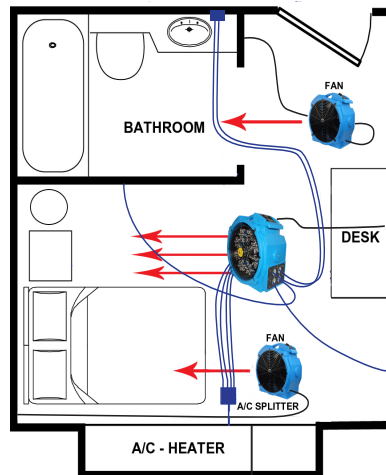
STEP 7

If room has pedestal or sealed type bed frames that obstruct airflow under the bed: Prop the bed and box spring using a chair or drawer to ensure airflow. **Note: Try to disturb the room as little as possible to avoid disturbing the insects and driving them into wall voids or under carpet pads.**



STEP 8

Ensure proper air flow direction (See Graph). Be sure to leave plenty of room in front and behind heaters and fans. Secure loose paper. Do not place back of fan too close to hanging curtains that could be sucked into the fans or heater.

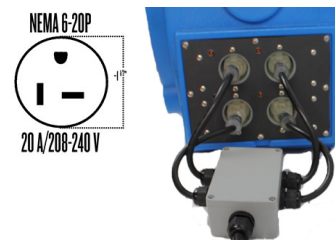


The number of fans used will depend on the package purchased

NOTE: Additional power circuits may be obtained from adjacent rooms and or hallways

STEP 9

Place heater and additional fans following the above diagram to create the proper airflow. You will need to adjust heater and fan placement to maximize airflow according to the actual room configuration. Be sure to plug in the Black fan cord attached to the heater as well in order operate the fan and the temperature controls.



STEP 10

If present, plug splitter into A/C 20 amp 240 volt outlet and plug the four splitter cords in the heater plug receptacles. See step 11 and follow for both sides if your treatment area is not equipped with a 20amp PTAC (Commonly Found in Hotels and other hospitality settings). **ALL FOUR SPLITTER PLUGS MUST BE PLUGGED INTO THE HEATER FOR THE SPLITTER TO WORK.**



STEP 11

Run additional power cords to the remaining orange plugs. When utilizing wall outlets, make sure the total power draw per circuit does not exceed breaker capacity (2 Blue Cords / 20amp 110 volt Circuit or 1 Blue Cord / 15 amp 110 volt Circuit).



STEP 12

After plugging in all the heating elements, and ensuring all the lights are lit, turn on the fan (GREEN SWITCH), then turn on the heater (RED SWITCH).

Note: Be sure to unplug all electrical items. Do not place electrical items directly in front of the heater. Electrical items are rated for higher temperatures than you are heating, just avoid the direct heat coming out of the heater.

Caution:

Always turn fans on prior to turning heater on. Always turn heater off prior to turning fans off.

DETAILED TRAINING INSTRUCTION VIDEOS, HEAT PREPARATION SHEETS AND MANUALS CAN BE FOUND AT

<http://convectex.com/pages/training>



STEP 13

Your Elite 8 Heater comes with a state of the art digital temperature controller built into the unit. The controller is preset to 132° Fahrenheit and requires no need for adjustment to use your Elite 8 unless you want to change the high temperature settings.

To change the high temperature setting push the set button on the thermostat and use the arrows to adjust temperature up or down. Push the set button when finished.



STEP 14

Close the room door and allow to heat for at least 15 hours (24 hours is ideal). Ensure all the surface temperatures within the treatment area are above 120° Fahrenheit.



STEP 15

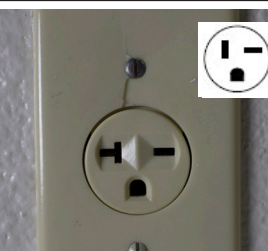
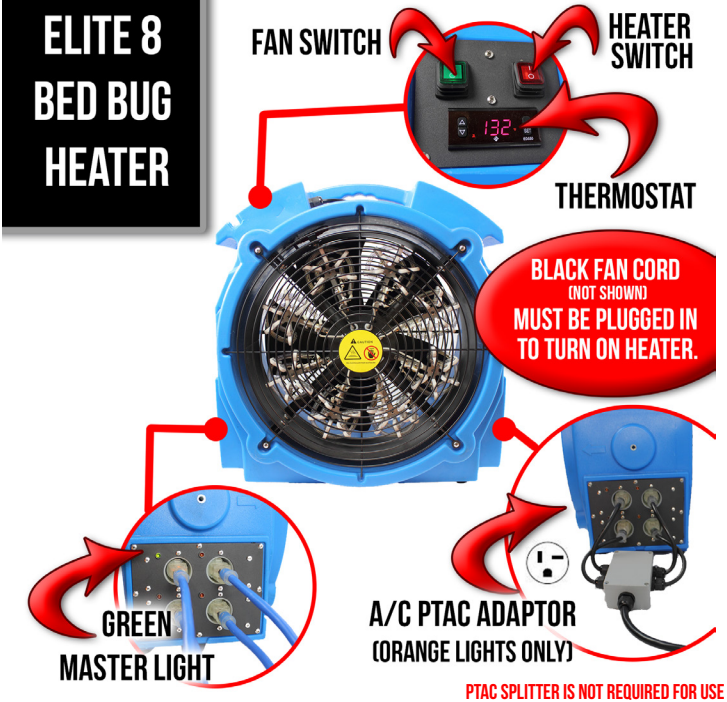
Place a towel under the door to reduce heat escaping the treatment area.

STEP 16



Target temperatures will begin to be achieved around the 7 to 10 hour mark. Monitor the room as desired using the provided infrared laser spectrometer pistol. This will give you a quantifiable measurement of the temperatures in the room. Take temperature readings in the corners, low next to the carpet on the outside walls of the room where glass windows or sliding doors are located. Take temperature readings under the bedspread and pillows, inside drawers, around headboards, inside

cabinets and drawers. Take temperature readings under the beds, on carpet surfaces and under carpet edges if possible. Point the air movers towards any cool spots located during your monitoring efforts. All the surface temperatures within the treatment area should be above 120° Fahrenheit.



Warning: Power adapters (Splitters) are to only be used in conjunction with the Radial 8, Elite 4, and Elite 8 heater. Under NO circumstances should the adapter be used or manipulated for any other purpose, application, or equipment other than those listed.

Each heating element draws 8 amps or 960 watts. Two (2) heating elements can be plugged into a 20 amp circuit or One (1) heating element per 15 amp 110 volt circuit.

With (4) 20amp or 8 15 amp circuits you can achieve full power of your Elite 8 creating 26,190 BTU's

Check out our full line of 220 volt conversion accessories at www.convectex.com

INSTRUCTIONS FOR ELITE 4 BED BUG HEATER



STEP 1

Inspect your Elite 4 for damage - Do not use if damaged. Check all heating elements to make sure everything works and nothing was damaged from shipping. If damaged from shipping do not use and contact us immediately at 877-375-0005.



STEP 2

Always check for fire sprinklers installed in a building. Keep the heat level at fire sprinkler head a minimum of 30° F below the trigger temperature of the fire sprinkler. Place the sprinkler head protector into position with small ice packs. Make sure that the amount of ice in the cover allows the fire sprinkler head to fit inside cover without touching the ice packs.



STEP 3

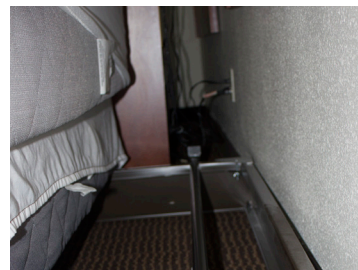
Turn off any AC or Heater units within the unit. Cover bathroom exhaust fan grills and any A/C air returns with tape or similar material to reduce heat loss via thermal stacking. Remember that heated air naturally rises. By focusing the energized air directly over the floor coverings, and along the walls and furniture, the heated air will heat the treatment area from the ground up.

NOTE: Walls and ceilings made of block or concrete require more heat because they are more conductive of energy than drywall. This means 1 heater will heat less space when you have walls and/or ceilings with block or concrete. 50% more power is a general rule for these rooms. All buildings are not created equal and more conductive materials take more energy to heat.



STEP 4

Cover single pane windows with reflective insulating material such as Reflectix.



STEP 5

Pull all furniture, chairs, couches, beds, headboards, nightstands, etc. at least 6 inches away from the walls of the room to allow airflow along the walls. If the headboard is attached to the wall, leave it in place. Be sure to direct heated air low to the floor by pointing electric heaters towards carpeting. Aim heaters towards floor coverings and hard to heat infested areas such as the head boards.

Utilize axial fans to move energized air into stagnant sections of the room.



STEP 6

Slightly open any cupboards and drawers approximately 4 to 6 inches.



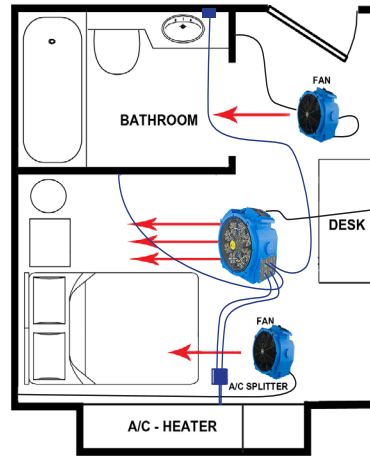
STEP 7

If room has pedestal or sealed type bed frames that obstruct airflow under the bed: Prop the bed and box spring using a chair or drawer to ensure airflow. **Note: Try to disturb the room as little as possible to avoid disturbing the insects and driving them into wall voids or under carpet pads.**



STEP 8

Ensure proper air flow direction (See Graph). Be sure to leave plenty of room in front and behind heaters and fans. Secure loose paper. Do not place back of fan too close to hanging curtains that could be sucked into the fans or heater.



The number of fans used will depend on the package purchased

NOTE: Additional power circuits may be obtained from adjacent rooms and/or hallways

STEP 9

Place heater and additional fans following the above diagram to create the proper airflow. You will need to adjust heater and fan placement to maximize airflow according to the actual room configuration. Be sure to plug in the Black fan cord attached to the heater as well in order operate the fan and the temperature controls.



STEP 10

If equipped, plug the 2 Way A/C PTAC splitter into A/C 20 amp 240 volt outlet and plug the 2 splitter cords into 2 heater receptacles. Find 2 x 20 or 2 x 15 amp circuits for the remaining power (4 x 20 or 15 amp circuits will be required if PTAC is not utilized or available or if no splitter option was purchased). When utilizing wall outlets, make sure the total power draw per circuit does not exceed breaker capacity (1 Blue Cords / 20 or 15 amp circuit).



STEP 11

After plugging in all the heating elements and ensuring all the lights are lit, turn on the fan (GREEN SWITCH), then turn on the heater (RED SWITCH).

Note: Be sure to unplug all electrical items. Do not place electrical items directly in front of the heater. Electrical items are rated for higher temperatures than you are heating, just avoid the direct heat coming out of the heater.

Caution:

Always turn fans on prior to turning heater on. Always turn heater off prior to turning fans off.



STEP 12

Your Elite 4 Heater comes with a state of the art digital temperature controller built into the unit. The controller is preset to 132° Fahrenheit and requires no need for adjustment to use your Elite 8 unless you want to change the high temperature settings. To change the high temperature setting push the set button on the thermostat and use the arrows to adjust temperature up or down. Push the set button when finished.

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STEP 13

Close the room door and allow to heat for at least 15 hours (24 hours is ideal). Ensure all the surface temperatures within the treatment area are above 120° Fahrenheit.



STEP 14

Place a towel under the door to reduce heat escaping the treatment area.



STEP 15

Target temperatures will begin to be achieved around the 7 to 10 hour mark. Monitor the room as desired using the provided infrared laser spectrometer pistol. This will give you a quantifiable measurement of the temperatures in the room. Take temperature readings in the corners, low next to the carpet on the outside walls of the room where glass windows or sliding doors are located. Take temperature readings under the bedspread and pillows, inside drawers, around headboards, inside cabinets and drawers. Take temperature readings under the beds, on carpet surfaces and under carpet edges if possible. Point the air movers towards any cool spots located during your monitoring efforts. All the surface temperatures within the treatment area should be above 120° Fahrenheit.

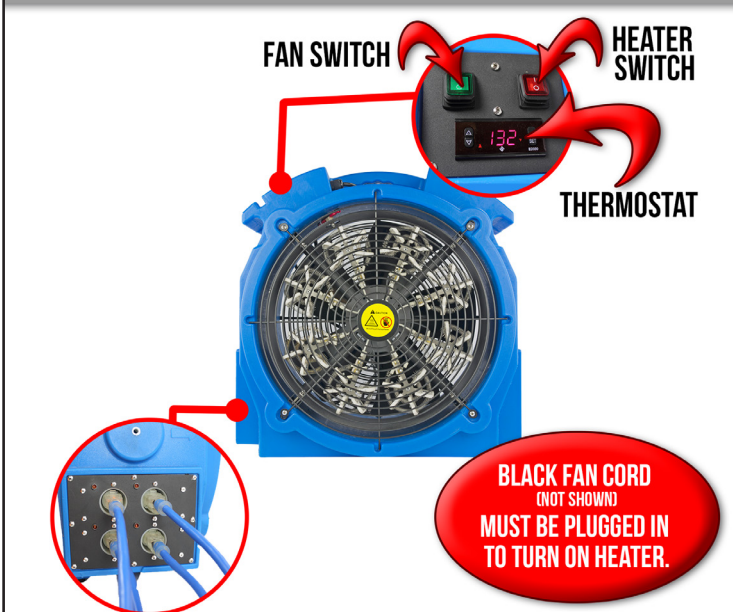


Warning: Power adapters (Splitters) are to only be used in conjunction with the Radial 8, Elite 4, and Elite 8 heater. Under NO circumstances should the adapter be used or manipulated for any other purpose, application, or equipment other than those listed.

Use the 2 Way A/C PTAC Splitter (if ordered) to Power 2 out of the 4 elements. Both plug ends of the splitter must be plugged into the heater for the splitter to work. Each heating element draws 12 amps or 1500 watts. One (1) heating element can be plugged into a 20 or 15 amp circuit. With (4) 15 or 20 amp circuits you can achieve full power of your Elite 4 @ 20,460 BTU's

Check out our full line of 220 volt conversion accessories at www.convectex.com

ELITE 4 BED BUG HEATER



Eradiation Chart	LETHAL TEMPERATURE	TIME DURATION
BED BUG ADULTS & NYMPHS	113° F / 45° C	15 MINUTES
BED BUG EGGS	113° F / 45° C	60 MINUTES
BED BUG ALL STAGES	115° F / 46° C	7 MINUTES