

# 46K Heater

**“For Professional use only”**

## Operations Manual



**\*Before each use inlets and extension cords need to be checked for damage\***

**K&J Representatives, LLC**

877-565-7377

EPA EST. No. 086342-AZ-002

# Safety Page

Read this owner's manual fully and carefully before using your 46K

## Caution: 46K Safety Information

Never operate the 46K with loose a cord connection or damaged power cord(s).

Never operate the 46K without the internal fan running.

Never set the Thermostat control to higher than 140F degrees.

Never use an extension cord smaller than 12 gauge for the 120V inlets or longer than 50'.

Never use an extension cord smaller than 10 gauge for the 240V inlets or longer than 75'.

Always check building circuits for proper grounding before plugging in your 46K.

Never drop or bounce the 46K. Internal and external damage may occur.

Never clean or service the 46K while plugged into an electrical power source.

Never operate the 46K in standing water.

Never operate the 46K unless all panels, guards and fan are attached, on and are properly secured.

Always keep the air inlet & outlet clear of any obstructions and loose material.

Never connect power from different buildings to the 46K.

**Warning:** Ignoring these safety precautions may result in personal injury.

## K&J Representatives, LLC 1 Year Limited Warranty

**“For Professional use only”**

**Warrantor:** K&J Representatives, LLC, 6677 Inter Cal Way, Prescott, AZ 86301. Telephone: 877-565-7377

**Who is Covered:** This warranty extends to the original end-user and may not be assigned or transferred.

**Warranty Period:** The term of the warranty coverage from the date of purchase is:

1 years on the housing

1 year on parts and labor

**Warranty Coverage:** K&J Representatives, LLC warrants that, for one (1) year, the 46K heater manufactured by K&J Representatives, LLC will operate free from defects in material or workmanship, or K&J Representatives, LLC, at its option, will repair or replace the defective part(s). K&J Representatives, LLC will repair or replace the defective part(s), providing that the end user, at the end users expense, ships the 46K heater to K&J Representatives, LLC for warranty consideration.

K&J Representatives, LLC further warrants that for a period of one (1) years, the housing of the Heater manufactured by K & J Representatives, LLC will be free from defects in material or workmanship, K&J Representatives, LLC will repair or replace the defective part(s), providing that the end user, at the end users expense, ships the 46K heater to K&J Representatives, LLC for warranty consideration.

This warranty **does not** cover any defect, malfunction, etc... resulting from improper operation, lack of maintenance, freezing, corrosion from chemicals, condensation, tampering, modification, unauthorized or improper repair, accident, acts of nature, shipping after you receive the Heater, or normal wear to items such as power cords, plug adaptors or other items which require replacement resulting from normal usage and may require replacement prior to 1 year based on usage.

**Purchaser/End-User Responsibilities:** The end-user is expected to inspect all items that have been received and make sure that they are in proper working order within 3 days of receiving the equipment. If any items are damaged from shipping the customer is responsible to inform K&J Representatives, LLC within 3 days of receiving the items. If K&J Representatives is notified within 3 days of damage occurring during shipping, K&J Representatives, LLC will provide the shipping labels for the return of the damaged item.

After the 3 days for determination of shipping damage, it is the responsibility of the end- user to ship the unit back to K&J Representatives, LLC at the end users expense for warranty consideration. It is the end user's responsibility to pay for shipping the unit back to us for warranty consideration. If the unit is under the warranty K&J Representatives, LLC will repair the item(s) and send back to the customer. If the repair is not covered under warranty the end user is responsible for the charges that are incurred in repairing the units and all shipping.

### **Warranty Locations:**

All warranty service must be performed by K&J Representatives, LLC unless otherwise authorized by K&J Representatives, LLC. The end-user must contact K&J Representatives, LLC prior to warranty consideration. All covered warranty service will be arranged during normal business hours.

**Limitations and Exclusions:** If any part of the Heater manufactured by K&J Representatives, LLC is repaired or replaced as covered warranty, the new part shall be warranted only for the remainder of the original warranty period of the Heater.

Upon expiration of the written warranty applicable to the K&J Representatives, LLC Heater or any part thereof, all other warranties implied by law, including merchantability and fitness for a particular purpose, shall also expire. All warranties made by K&J Representatives, LLC are set forth herein, and no claim may be made against K&J Representatives, LLC on any oral warranty. In no event shall K J Representatives, LLC, in connection with the sale, operation, repair or replacement of any K&J Representatives, LLC device or part thereof be liable under any legal theory for any special, indirect or consequential damages including without limitation water damage, lost profits, delay, or loss of use or damage to any real or personal property.

**Legal Rights:** This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

# Operating Your 46K

Unpack & inspect your 46K for damage – Do not use if anything appears visually 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 877-565-7377.

Your 46K has (4) 120volt plug-ins for the heating elements located four (4) on one side of the 46K (designated Left in diagram). Each heating element is 12 amps or 1500 watts. Only one inlet can be plugged into a 15- or 20-Amp 120-volt circuit. With (4) circuits you can achieve 20,460 BTU's of heat your 46K.

The 46k also has 2 twist-lock inlets on the (designated Right in diagram) side which use 16 amps each at 240 volts. This requires a circuit minimum of 20 amperage at 240 volts for each twist-lock inlet. These two inlets provide 26,189 BTU's of heat combined.

Combined BTU's is 46,649

See Diagram:



## Turning on your 46K:

**Start** – Make sure the black cord that is attached to the heater is plugged into the wall. This cord requires less than 2 amps of electricity @ 120 volts. This provides the power to the switches and thermostat controller as well as the fan.

Next plug in as many heating element inlets as needed to facilitate your job requirements. Turn on the fan by using the green switch. Wait to confirm that the fan turns on and is operating properly. If the fan does not turn on, do not turn on the heating elements. If you cannot get the fan to turn on, stop and call K&J Representatives, LLC immediately. Once the fan is operating turn on the heater with the red switch. You should feel heated air coming out of the heater exhaust. The entire heating element(s) should not glow orange. There will likely be some orange glowing occurring behind the ceramic element holders and this is normal. Turn off the heater completely if the entire heating element(s) glow orange. Then call K&J Representatives, LLC.

Make sure all 120v plugs from your extension cords fit completely and snugly when plugged into their respective inlets. Failure in doing so may cause damage to the extension cord(s) or the 46K.

The 240v power supply is a twist lock connection; make sure to twist the connection clockwise after securely fitting into inlet. Failure to make a solid connection can cause damage to the power supply cord(s) or the 46K.

The 46K is already programmed and set at 135 degrees maximum. No setting adjustments need to be performed to operate your 46K. The unit will display the ambient air temperature in the rooms and the heating elements will turn off once the desired temperature is reached. The fan will continue to operate. Once the temperature has dropped 1 degree F the heating elements will turn back on and cycle on/off to keep the temperature constant.

## Temperature Controller

Your 46K comes with 2 state-of-the-art digital temperature controllers built into the unit. **The controllers are preset to 135F and require no need for adjustment to use your Heater unless you want to change the temperature settings.**

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

## Fire Sprinkler System

If you have a Fire Sprinkler System turn the Temperature Controller to 125F. **Check to see what trigger temperature your Fire Sprinklers are designed to activate.** You will need to treat the room for 10-12 hours as a minimum so make sure you set the high temperature of your 46K at least 30F less than the trigger temperature of the fire sprinkler heads. K&J Representatives, LLC will not be responsible if fire sprinkler heads release and create water damage. This is the sole responsibility of the end-user. If you have any concerns, do not operate the 46K in that area.

## Best Practices for Heating rooms

1. Heat rises. Always try to seal the room(s) to limit the heat from escaping. Cover HVAC vents, bathroom exhaust fans, bottoms of doors, wall air-conditioners, etc... Cover windows pane with blankets or equivalent to minimize loss of energy from cold windows, this is especially important in the Winter.
2. Remove items that you would not leave in your car on a hot sunny summer day with the windows closed. Candles, lighters, many foods, candies, etc...
3. Unplug all electrical items and 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.
4. It is best to bag clothes, sheets, etc..., un-bag and run in the clothes dryer for 20 minutes on high. Never leave clothes laying on the floor or other surfaces or they will act as an insulator and it will be difficult to heat under them to sufficient temperatures.
5. Open all drawers and separate all items so hot air can easily circulate to everywhere. Stand or block box spring and mattresses so hot air can contact all sides.
6. Place all fans blowing in the area you are heating to circulate the hot air into every nook and cranny. Turn on fans and check to ensure air movement is sufficient. Add more fans if it does not feel like a whirl wind or heat is not blowing into every nook and cranny.
7. Turn on heater and make sure all heater light switches that have power are on. Heater switches will not turn on if you do not have power connected to the respective heater switch/inlet. This is ok if you are doing this on purpose because you don't have or don't need the full power of the heater.
8. Always check for fire sprinklers installed in a building. Keep heat level at fire sprinkler head a minimum of 30F below the trigger temperature of the fire sprinkler.
9. 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. 30% more heat power is a general rule for these rooms. All buildings are not constructed equally and more conductive materials take more energy to heat.