

ELECTRIC UTILITY FAN WITH FORCED HEAT INSTRUCTION MANUAL

#45BMIL15KW

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CRITICAL INFORMATION

- **Protect from Elements:** The heater must be used in a covered and enclosed space. Exposure to rain or snow can cause a short circuit or damage the heating elements.
- **Maintain Proper Clearances:** Ensure a minimum of 3 feet of clearance on all sides of the heater. Failure to maintain proper spacing may result in property damage.
- **Cool Down Process:** Run the heater in fan-only mode for 3 minutes before shutting it down. Skipping this step may affect the unit's longevity.

HAZARD STATEMENTS

General Safety:

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, injury, and hyperthermia, including:

1. **Read the Manual:** Read all instructions before using this heater.
2. **Hot Surface Warning:** The heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials at least 3 feet away from the heater's front, sides, and rear. Ensure that the rear grille is clear of walls or drapes to avoid blocking air intake.
3. **Supervision Required:** Exercise extreme caution when the heater is used by or near children or people with disabilities, or when left operating unattended.
4. **Unplug When Not in Use:** Always unplug the heater when it is not in use. To disconnect, grip the plug and pull it from the outlet. Never pull on the cord.
5. **Disconnecting:** Turn controls to "OFF," then remove the plug from the outlet.
6. **Malfunctioning:** Do not operate the heater if the cord or plug is damaged, or if the heater malfunctions, has been dropped, or is damaged in any way. Return the heater to an authorized service facility for examination and repair.
7. **Indoor Use Only:** Do not use the heater outdoors. It is intended for household and floor use only.
8. **Avoid Wet Areas:** Do not use the heater in bathrooms, laundry areas, or similar locations. Never place the heater where it may fall into water. Avoid splashing or pouring water on the product.
9. **Cord Safety:** Do not run the power cord under carpeting or cover it with rugs or runners. Arrange the cord away from traffic areas to prevent tripping hazards. Do not route the cord under furniture or appliances.
10. **Proper Connection:** Ensure the heater is connected to a properly grounded outlet. Verify that the voltage and amperage on the heater matches the electrical supply.
11. **Foreign Objects:** Do not insert fingers or foreign objects into any ventilation or exhaust openings, as this may cause electric shock, fire, or damage to the heater.
12. **Airflow:** To prevent fire, do not block the heater's air intakes or exhaust. Avoid using the heater on soft surfaces, like a bed, where the vents may become blocked.
13. **Intended Use:** Use the heater only as described in this manual. Any other use may cause fire, electric shock, injury, or damage to property.
14. **Warm Plug and Cord:** It is normal for the plug and cord to feel warm during operation. If the plug or cord becomes hot or distorted, the electrical outlet may be worn. Replace worn outlets or receptacles before further use to prevent fire hazards.

15. **Stable Placement:** Ensure the heater is placed on a stable, secure, horizontal floor surface to avoid tipping.
16. **Proper Plugging:** Fully insert the plug into an appropriate receptacle. Periodically check for signs of overheating or deformation at the outlet or plug.
17. **Transport Damage:** Inspect the appliance and power cable for any damage that may have occurred during transportation.
18. **Packaging Materials:** Ensure no pieces of polystyrene or other packaging materials are left inside the heater. A vacuum cleaner may be necessary to remove these materials.
19. **First Use Odor:** A slight odor may occur during the heater's first use, which is normal. Allow the odor to dissipate by running the appliance at full power for about ten minutes in a well-ventilated room.
20. **Unattended Use:** Do not run the heater in locations where it will be left unattended for extended periods of time.
21. **No Attachments:** Do not use attachments or filters not recommended by the manufacturer.
22. **Direct Wall Plug:** Always plug the heater directly into a wall outlet. Do not use it with an extension cord, power strip, or relocatable power tap.
23. **Hyperthermia Warning:** Hyperthermia can result in death. Symptoms include high body temperature, headache, nausea, vomiting, dizziness, and rapid pulse. If these symptoms occur, turn off the heater and seek medical attention immediately.

Electrical Safety:

- **Proper Grounding:** Ensure the heater is plugged into a properly grounded NEMA-type outlet.
- **Avoid Extension Cords:** Never use an extension cord with the heater, as it can create a fire hazard.
- **Voltage and Amperage:** Verify the heater's voltage and amperage to ensure it matches the provided electrical service.

Operational Safety:

- **Overheating:** To avoid overheating, do not cover the heater. Avoid placing objects on or near the heater's vents. Keep children, pets, and other individuals away from the vents while the heater is in use.
- **No Flammable Materials:** Avoid placing the heater near beds, where objects like pillows or blankets could fall into the heater and ignite.
- **No Wet Locations:** Do not use the heater on wet surfaces or in areas where it could come into contact with water, such as bathtubs, showers, or swimming pools.
- **Timer Warning:** Do not use this heater with timers designed to automatically turn the unit on or off, as this may disable the heater's thermal cutout safety feature.
- **No Remote Plugs:** Do not use this heater with wireless plug adapters or remote-controlled outlets, as they may create a safety hazard.

Maintenance and Cleaning:

- **Replacement Parts:** Only use replacement parts recommended by the manufacturer. Using homemade parts (e.g., parts created using 3D printers) could create fire or electrical hazards.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the heater. Any servicing, apart from ordinary cleaning, should be performed by qualified personnel.

Child Safety:

- **Supervision Required:** Children should be supervised to ensure they do not play with the heater or its packaging materials.
- **Restricted Use by Children:** This appliance is not intended for use by children or individuals with reduced physical, sensory, or mental capabilities unless supervised by someone responsible for their safety.

INITIAL SETUP

Inspect the Packaging:

1. **Check for External Damage:** Inspect the exterior of the packaging for signs of dents, tears, or punctures.
2. **Open the Box Carefully:** Use scissors or a box cutter to carefully slice through the tape or seals on the box.
3. **Check for Damage:** Once the box is open, inspect the machine for any visible damage.
4. **If Damaged, Contact Manufacturer:** If damage is found, contact the manufacturer immediately with photos of the damage.

Unboxing:

1. **Lift the Machine:** With assistance, carefully lift the machine out of the packaging.
2. **Remove Packaging Materials:** Remove foam inserts, plastic coverings, and any protective materials from the inside and outside of the equipment.
3. **Keep Important Documents:** Set aside the manual, warranty document, and any other product documentation.
4. **Handle Assembly:**
 1. **Place the Heater Upright:** Position the heater in an upright position.
 2. **Attach Carry Handle:** Use the provided screws to attach the carry handle on top of the heater housing as shown.
 3. **Tighten Screws:** Use a screwdriver (not included) to firmly tighten the screws. Ensure the screws are not overtightened.

CLEANING

Disconnect Power:

- It is required to disconnect the unit from power before any cleaning is completed.

Clean the Exterior:

- Wipe down the exterior surfaces with a damp, lint-free cloth.

Remove Dust and Debris:

- **Vacuum Cleaner:** Use a vacuum cleaner brush attachment to gently remove dust from internal components like fan and heating elements.
- **Soft Brush:** Gently brush away any stubborn dirt or debris.
- **Light Compressed Air:** Use to blow out dust from hard-to-reach areas. Do this in a well-ventilated area.

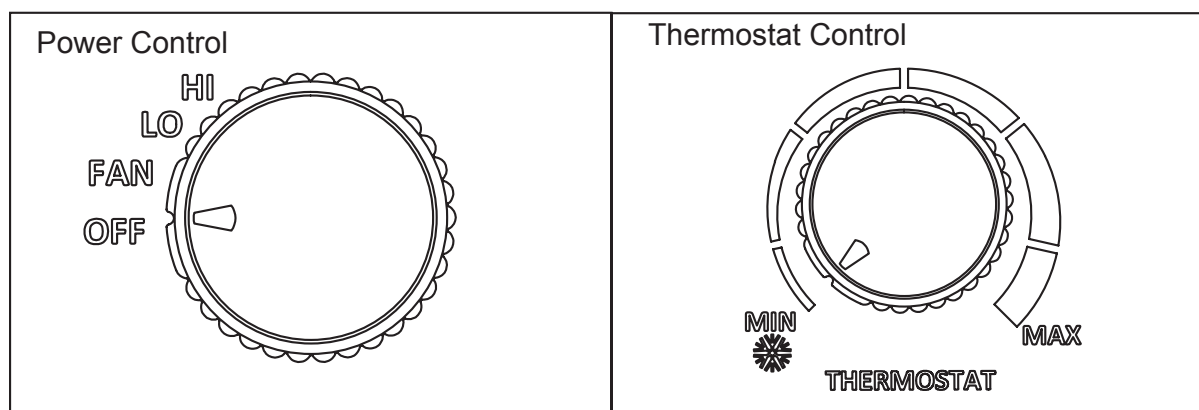
Test the Heater:

- Reconnect the power.
- Turn on the heater to ensure it operates correctly.
- Listen for unusual noises and check for irregular performance.

OPERATION

General Use:

- Industrial heaters are designed to gradually increase room temperature by circulating air across the heating element.
- Best results occur when using the heater in confined spaces with standard ceiling heights.
- Do not use this equipment attached to an extension cord.



Controls:

- This heater includes a thermostat for automatic control of the air temperature leaving the unit.
 - **OFF:** Heater and fan are off.
 - **FAN:** Turning the knob clockwise from the OFF position to the FAN position runs only the fan.
 - **LO/HI:** Controls how fast the hot air is blowing and activates the heating elements.
 - **THERMOSTAT Knob:** Temperature settings range approximately from **40°F (MIN)** to **100°F (MAX)**.

Important: Cool Down Cycle:

- After operating in heating mode, when shutting down the unit:
 - Rotate the control to the **FAN position**.
 - Allow the unit to cool down for at least **three minutes**.
 - This will extend the life of the unit.

Over-Temperature Limit:

- This industrial heater is equipped with an over-temperature limit that will shut the heater down in the event of overheating.
- **Note:** If the unit activates the over-temperature limit:
 - Determine the cause of overheating before further operation.
 - Check the heater to ensure it is not blocked in any manner.
 - Remove any blockage.

MAINTENANCE



Warning: Electric Shock Hazard

- Disconnect the heater from the power supply before servicing or inspecting. Failure to do so could result in personal injury or property damage.

Safety Precautions:

- Do not allow water to run into the interior of the heater. This could create a fire or electric shock hazard.
- Store the heater in a cool, dry location when not in use to prevent dust and dirt buildup.
- Use the original packaging to repack the unit.



Caution:

- Allow the heater to cool completely before servicing or cleaning.

Maintenance Tasks:

- **Cords and Plugs:**

- Replace or repair damaged cords or plugs immediately.

- **Electrical Connections:**

- Check the tightness of all electrical connections prior to plugging in the heater.

TROUBLESHOOTING

PROBLEM	CAUSE	ACTION
Heater fails to operate.	Power cord is not plugged into the outlet.	Ensure that the unit is plugged directly into a standard 120-volt outlet.
	Automatic safety shut-off has been initiated.	Turn off the heater, unplug the power cord, and remove any obstructions. Wait 30 minutes for the heater to cool down. Plug the power cord back in, place the heater in the desired position, and turn it on. The heater should now function normally.
	Tip-over switch on the bottom of the unit has been tripped, activating the safety shut-off system.	Place the heater on a level surface. Return it to an upright position to restore power.
	Unit is damaged or in need of repair.	Contact customer service for assistance.
Not producing enough heat.	A power strip, surge protector, or extension cord is being used.	A power strip, surge protector, or extension cord is being used.
	Poor location of the unit.	Ensure the unit is located in an interior room. Close all doors and windows to retain heat.
	Improper operation settings.	Set the Power Control to the "HI" position and the THERMOSTAT knob to the highest temperature setting (MAX).
	Room size exceeds recommended limits.	Use the heater in rooms not exceeding 160 square feet.
	Not set to maximum power.	Set the Power Control to the "HI" position and the THERMOSTAT knob to the highest temperature setting (MAX).
Unit blows cool or cold air.	Defective heater blower motor.	Contact customer service for assistance.

TROUBLESHOOTING

PROBLEM	CAUSE	ACTION
Noise with heater on.	Dirty heater blower motor.	Gently vacuum the heater blower vents.
	Defective heater blower motor.	Contact customer service for assistance.
Power cord gets warm.	Normal operation.	Check the heater cord and plug connections. Faulty wall outlet connections or loose plugs can cause overheating. Ensure the plug fits tightly in the outlet. Heaters draw more current than small appliances, so overheating may occur even if it has not with other devices. Frequently check if your plug, outlet, or faceplate is hot. If so, discontinue use and have a qualified electrician inspect or replace the faulty outlet(s).
Heater does not work, but Power Control is in the "LO" or "HI" position and the THERMOSTAT knob is set to MAX.	The thermal protector has tripped.	Turn all switches to the "OFF" position and unplug the unit from the wall outlet for 5 minutes. After 5 minutes, plug the unit back into the wall outlet and operate as normal.