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Model: 22BF-A00 | Brand: Avenger

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your Avenger Portable Outdoor Propane Cabinet Heater, Model 22BF-A00. This radiant gas heater is designed for outdoor use only, providing adjustable heat output up to 18,000 BTUs. Please read all instructions carefully before assembly or operation.

IMPORTANT SAFETY INFORMATION

Failure to follow these instructions can result in fire, explosion, property damage, personal injury, or death. This heater is for outdoor use only and must be used in well-ventilated areas.

- **Outdoor Use Only:** Never operate this heater indoors or in enclosed spaces. Adequate ventilation is crucial to prevent carbon monoxide poisoning.
- **Oxygen Depletion Sensor (ODS):** The heater is equipped with an ODS system that will automatically shut off the heater if oxygen levels become too low. Do not tamper with or bypass this safety feature.
- **Tip-Over Shut-Off:** An automatic shut-off mechanism activates if the heater is accidentally tipped over, reducing the risk of fire.
- **Propane Gas Only:** Use only propane gas with this heater. Ensure the propane tank is a standard 20 lb. tank and is stored properly within the heater's cabinet.
- **Clearances:** Maintain proper clearances from combustible materials. Refer to the product labels for specific distances.
- **Supervision:** Never leave the heater unattended while in operation. Keep children and pets away from the heater.
- **Ignition:** Use the integrated piezo ignition system. Do not use external ignition sources.

PRODUCT OVERVIEW AND COMPONENTS

Your Avenger Portable Outdoor Propane Cabinet Heater is designed for portability and efficient radiant heating. It

includes the following main components:

- Radiant Propane Heater Unit
- Integrated Cabinet for 20 lb. Propane Tank Storage
- Hose and Regulator Assembly
- Heavy-Duty Casters (pre-installed or requiring minor attachment)
- Push-and-Turn Ignition Knob with Piezo Igniter



Image: Front view of the Avenger Portable Outdoor Propane Cabinet Heater, showing the radiant burner and protective grille.



Image: Angled view of the Avenger Portable Outdoor Propane Cabinet Heater, highlighting its compact design and casters for mobility.

SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove the heater from its packaging. Inspect for any shipping damage. Retain packaging for future storage if desired.
2. **Placement:** Position the heater on a firm, level surface in a well-ventilated outdoor area. Ensure there are no

combustible materials within the recommended safety clearances (refer to product labels).

3. Propane Tank Installation:

- Open the rear door of the heater cabinet.
- Place a standard 20 lb. propane tank (not included) inside the cabinet.
- Connect the included hose and regulator assembly to the propane tank valve. Hand-tighten securely.
- Ensure all connections are tight and check for leaks using a soapy water solution (bubbles indicate a leak).
- Close the cabinet door.

4. **Caster Check:** Verify that the heavy-duty casters are securely attached and allow for smooth movement.



Image: The heater positioned in an outdoor construction environment, demonstrating its intended use in well-ventilated spaces.

OPERATING INSTRUCTIONS

1. **Open Propane Supply:** Slowly open the valve on the propane tank counter-clockwise until fully open.
2. **Ignition:**
 - Locate the control knob on the top of the heater.
 - Push the control knob down and turn it counter-clockwise to the "PILOT" position.

- While holding the knob down, press the red piezo igniter button repeatedly until the pilot flame ignites. You should see a small flame through the viewing window.
- Continue to hold the control knob down for approximately 30-60 seconds after ignition to allow the thermocouple to heat up.
- Release the control knob. If the pilot flame extinguishes, repeat the ignition process.

3. Adjusting Heat Output:

- Once the pilot is lit, push the control knob down slightly and turn it further counter-clockwise to your desired heat setting:
 - **Low:** 6,000 BTUs
 - **Medium:** 12,000 BTUs
 - **High:** 18,000 BTUs
- The main burner will ignite. Adjust as needed for comfortable warmth.

4. Shutting Off the Heater:

- Turn the control knob clockwise to the "OFF" position.
- Close the valve on the propane tank by turning it clockwise until fully closed.
- Allow the heater to cool completely before moving or storing.



Image: Detail of the push-and-turn control knob and red piezo igniter button, located on the top surface of the heater.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your heater.

- **Cleaning:** Ensure the heater is completely cool and the propane supply is off before cleaning. Wipe exterior surfaces with a damp cloth. Do not use abrasive cleaners or solvents. Keep the burner area free of dust and debris.
- **Inspection:** Periodically inspect the hose and regulator for any signs of wear, cuts, or damage. Replace immediately if any damage is found. Check all gas connections for tightness.
- **Storage:** When not in use, especially for extended periods, disconnect the propane tank and store it in a well-ventilated outdoor area away from direct sunlight and heat sources. Store the heater in a dry, protected location.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Heater does not ignite or pilot light won't stay lit.	No propane supply or low tank. Gas valve not fully open. Air in gas line. Thermocouple not heating sufficiently. ODS system activated due to low oxygen.	Check propane tank level and ensure it's connected. Fully open the propane tank valve. Purge air by attempting ignition several times. Hold control knob down longer (30-60 seconds) after pilot ignition. Ensure heater is in a well-ventilated outdoor area.
Low heat output.	Incorrect heat setting. Low propane tank pressure. Partial blockage in gas line.	Adjust control knob to a higher setting. Check propane tank level. Inspect hose and regulator for kinks or damage.
Heater shuts off unexpectedly.	Tip-over sensor activated. ODS system activated. Propane tank empty.	Ensure heater is on a stable, level surface. Verify adequate ventilation. Replace or refill propane tank.

SPECIFICATIONS

Feature	Detail
Model Number	22BF-A00
Brand	Avenger
Heat Output	6,000 / 12,000 / 18,000 BTUs (Adjustable)
Heating Coverage	Up to 450 sq. ft.
Fuel Type	Propane
Ignition Type	Piezo Ignition
Safety Features	Oxygen Depletion Sensor (ODS), Tip-Over Shut-Off
Product Dimensions (W x D x H)	15" W x 10" D x 22" H
Item Weight	18.36 pounds
Indoor/Outdoor Usage	Outdoor Only



Image: A diagram illustrating the height (22.00"), depth (10.00"), and width (15.00") of the Avenger Portable Outdoor Propane Cabinet Heater.

WARRANTY INFORMATION

This Avenger Portable Outdoor Propane Cabinet Heater comes with a **1-year limited warranty**. For specific terms, conditions, and to make a warranty claim, please refer to the warranty card included with your product or contact the manufacturer directly. Keep your proof of purchase for warranty validation.

CUSTOMER SUPPORT

If you have any questions, require assistance with setup, operation, or troubleshooting that is not covered in this manual, please contact Avenger customer support. You can typically find contact information on the manufacturer's website or on the product packaging.

For additional resources and product information, visit the official Avenger website.

