Dayton 6BY74

Dayton 6BY74 LP Gas Fired Heater Instruction Manual

Model: 6BY74

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Dayton 6BY74 LP Gas Fired Heater. Please read and understand all instructions and warnings before using this appliance. Retain this manual for future reference.

The Dayton 6BY74 is a portable, floor-mount, radiant LP gas fired heater designed for heating areas up to 4700 square feet, suitable for rooms such as bedrooms, home offices, and study rooms. It operates on Liquid Propane (LP) gas.

2. Important Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always ensure adequate ventilation when operating the heater.
- Do not use this heater in living areas or where flammable materials are stored.
- Keep children and pets away from the heater during operation.
- Maintain proper clearances from combustible materials as specified in the setup section.
- Never leave the heater unattended while in operation.
- Ensure the heater is placed on a stable, level, non-combustible surface.
- Do not block air inlets or outlets.
- Only use Liquid Propane (LP) gas with this appliance.
- Regularly inspect the gas hose and connections for leaks or damage.

3. Package Contents

Verify that all components are present and undamaged before proceeding with setup.

- Dayton 6BY74 LP Gas Fired Heater Unit
- LP Gas Hose and Regulator Assembly
- Instruction Manual (this document)

4. Setup

Follow these steps for safe and proper setup of your heater.

1. **Unpacking:** Carefully remove the heater from its packaging. Inspect for any shipping damage. Report any damage immediately to your supplier.
2. **Placement:** Position the heater on a firm, level, non-combustible surface. Ensure adequate clearance from combustible materials:
    - Top: 36 inches (91 cm)
    - Sides: 24 inches (61 cm)
    - Front: 36 inches (91 cm)
    - Rear: 24 inches (61 cm)
3. **LP Gas Connection:**
    - Connect the regulator end of the hose assembly to the LP gas cylinder valve. Tighten securely by hand, then use a wrench for a final snug turn.
    - Connect the other end of the hose to the heater's gas inlet connection.
    - Perform a leak test: Apply a soap and water solution to all connections. Bubbles indicate a leak. If a leak is detected, turn off the gas supply, tighten connections, and retest. Do not use the heater if leaks persist.
4. **Ventilation:** Ensure the area is well-ventilated to prevent oxygen depletion. Do not use in enclosed spaces.





Figure 1: Dayton 6BY74 LP Gas Fired Heater. This image shows the cylindrical heater unit with its protective cage, control knobs at the base, and the "HOT" warning visible on the upper section.

5. Operating Instructions

Before operating, ensure all safety precautions and setup steps have been followed.

1. **To Start the Heater:**
    - Open the valve on the LP gas cylinder slowly.
    - Turn the heater's control knob to the "PILOT" position and push it in.
    - While holding the knob in, press the igniter button repeatedly until the pilot flame ignites. Continue to hold the control knob in for 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.
    - Once the pilot is stable, turn the control knob to the desired heat setting (e.g., "LOW" or "HIGH"). The main burner should ignite.
2. **To Shut Down the Heater:**
    - Turn the heater's control knob to the "OFF" position.
    - Close the valve on the LP gas cylinder completely.
    - Allow the heater to cool down before moving or storing.

CAUTION: Never attempt to light the heater with a match or other external flame if the igniter fails. Refer to the Troubleshooting section.

6. Maintenance

Regular maintenance ensures safe and efficient operation.

- **General Cleaning:** Keep the heater exterior clean. Use a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Pilot and Burner Inspection:** Periodically check the pilot and main burner for dust, debris, or insect nests. Clean gently with a soft brush if necessary.
- **Hose and Regulator:** Inspect the LP gas hose and regulator for cracks, cuts, or wear before each use. Replace if any damage is found.
- **Storage:** When not in use, disconnect the LP gas cylinder and store the heater in a dry, protected area.

7. Troubleshooting

Problem	Possible Cause	Solution
Heater does not ignite.	No gas supply, clogged pilot, faulty igniter, air in gas line.	Check LP cylinder valve. Clean pilot. Bleed air from gas line by attempting ignition several times. Contact qualified service personnel if igniter is faulty.
Pilot lights but main burner does not.	Low gas pressure, clogged main burner orifice, faulty thermocouple.	Ensure adequate gas in cylinder. Clean main burner. Contact qualified service personnel for thermocouple replacement.
Heater shuts off unexpectedly.	Lack of oxygen (poor ventilation), low gas pressure, faulty thermocouple.	Increase ventilation. Check gas supply. Contact qualified service personnel.
Gas odor detected.	Gas leak.	**IMMEDIATELY turn off gas supply at the cylinder.** Ventilate the area. Do not operate the heater. Perform a leak test. If leak persists, contact emergency services and qualified technician.

8. Specifications

- **Model:** Dayton 6BY74
- **Fuel Type:** Liquid Propane (LP) Gas
- **Mounting Type:** Floor Mount
- **Special Feature:** Portable
- **Heating Coverage:** Up to 4700 square feet
- **Burner Type:** Radiant
- **UPC:** 745332164173
- **ASIN:** B01LWU2C6V

9. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Dayton

For service or parts, please contact your authorized dealer or visit the manufacturer's website.

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