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Powermate Vx PLA4708065

PowerMate Vx PLA4708065 80-Gallon Electric Air Compressor User Manual

Model: PLA4708065

Introduction Safety Setup Operation Maintenance Troubleshooting Specifications

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your PowerMate Vx PLA4708065 80-Gallon Electric Air Compressor. Please read and understand all instructions before using the product. Keep this manual for future reference.

The PowerMate Vx PLA4708065 is an 80-gallon electric air compressor designed for demanding applications. It features a robust steel and cast iron construction, a powerful 15 Amp motor delivering 4.7 HP, and a maximum pressure of 155 psi. It provides 14 CFM at 90 psi, suitable for various air tools including ratchets, impacts, spray guns, and hammers. The unit includes a wired-formed belt guard for efficient cooling and an oil-lubricated pump with a 1-piece cast-iron crankcase and full cast-iron cylinder body for durability.



Figure 1.1: Overview of the PowerMate Vx PLA4708065 80-Gallon Electric Air Compressor. This image shows the complete unit with its large tank and motor assembly.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or death.

2.1 General Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the compressor is placed on a level, stable surface to prevent tipping.
- Do not operate the compressor in wet or damp conditions, or in the presence of flammable liquids or gases.
- Keep children and unauthorized personnel away from the operating area.
- Disconnect power before performing any maintenance or service.

2.2 Electrical Safety

- The compressor requires a 240-volt, 15 Amp dedicated circuit. Consult a qualified electrician for proper installation.
- Do not use extension cords unless absolutely necessary, and ensure they are rated for the compressor's power requirements.
- Ensure the compressor is properly grounded.

2.3 Air Pressure Safety

- Never exceed the maximum operating pressure of any air tool or accessory.
- Always drain the air tank daily to prevent rust and maintain optimal performance.
- Do not direct compressed air at yourself or others.

3. Setup and Installation

3.1 Unpacking and Inspection

Carefully remove the compressor from its packaging. Inspect the unit for any shipping damage. Report any damage to your supplier immediately. Ensure all components listed in the package contents are present.

3.2 Package Contents

- PowerMate Vx PLA4708065 Air Compressor Unit
- Air Filter
- User Manual



Figure 3.1: Close-up of the air compressor pump assembly. This image highlights the oil-lubricated pump and cast-iron components.

3.3 Location and Mounting

Place the compressor in a well-ventilated area with at least 12 inches of clearance around the unit for proper airflow. The compressor should be bolted to the ground or a sturdy platform to prevent movement during operation. Ensure the surface is level.

3.4 Electrical Connection

This compressor requires a 240-volt, 15 Amp electrical supply. A dedicated circuit with appropriate overcurrent protection is recommended. The power cord is not provided and must be installed by a qualified electrician according to local electrical codes. Ensure proper grounding.

3.5 Initial Oil Fill (if applicable)

The compressor pump may be shipped without oil or with a minimal amount for shipping. Check the oil level indicator and

fill with appropriate compressor oil if necessary. Refer to the maintenance section for oil specifications.



Figure 3.2: Detail of the oil fill cap and dipstick area on the compressor pump. This is where oil is added and checked.

4. Operating Instructions

4.1 Pre-Operation Checklist

1. Verify oil level is correct.
2. Ensure all connections are secure.
3. Check that the drain valve on the tank is closed.
4. Confirm the power switch is in the 'OFF' position before plugging in.

4.2 Starting the Compressor

1. Plug the compressor into the appropriate 240V outlet.
2. Turn the power switch to the 'ON' position. The compressor will begin to build pressure.
3. Allow the compressor to reach its maximum pressure (155 psi) and shut off automatically. This indicates proper function of the pressure switch.

4.3 Connecting Air Tools

Attach your air hose to the compressor's air outlet. Connect your desired air tool to the other end of the hose. Adjust the regulator to the required pressure for your tool. It is recommended to use a pressure regulator and a water separator, which are typically sold separately.

4.4 Shutting Down the Compressor

1. Turn the power switch to the 'OFF' position.
2. Disconnect the air hose from the compressor.
3. Slowly open the drain valve at the bottom of the air tank to release all compressed air and drain any accumulated moisture. Close the valve after draining.

5. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your air compressor.

5.1 Daily Maintenance

- **Drain Air Tank:** Open the drain valve at the bottom of the tank to release moisture. This prevents rust and corrosion.

- **Check Oil Level:** Ensure the oil level is within the recommended range on the dipstick.

5.2 Weekly Maintenance

- **Inspect Air Filter:** Check the air filter for dirt and debris. Clean or replace if necessary. A clogged filter reduces efficiency.
- **Inspect for Leaks:** Listen for air leaks around fittings and connections. Tighten as needed.

5.3 Monthly / Every 100 Hours Maintenance

- **Change Oil:** Replace the compressor oil with a suitable non-detergent compressor oil. Refer to the specifications for the correct type and viscosity.
- **Inspect Belt:** Check the drive belt for wear, cracks, or proper tension. Adjust or replace if needed.



Figure 5.1: Diagram showing the location of the air filter on the compressor pump. Regular inspection and cleaning of this filter are essential.

6. Troubleshooting

This section provides solutions to common problems you may encounter with your air compressor.

Problem	Possible Cause	Solution
Compressor does not start	No power supply Thermal overload tripped Pressure switch malfunction	Check power connection and circuit breaker Allow motor to cool, then reset Consult a qualified technician
Compressor runs continuously	Air leak Pressure switch not cutting off Check valve faulty	Locate and seal leaks Adjust or replace pressure switch Replace check valve
Low air pressure / Slow recovery	Clogged air filter Air leaks Worn pump components	Clean or replace air filter Locate and seal leaks Consult a qualified technician for pump repair
Excessive noise or vibration	Loose components Worn bearings Improper mounting	Tighten all fasteners Consult a qualified technician Ensure compressor is securely mounted on a level surface

7. Specifications

Feature	Detail
Model Number	PLA4708065
Brand	Powermate Vx

Feature	Detail
Voltage	230 Volts (AC)
Power Source	Electric-powered
Maximum Power	4.7 Horsepower (3.7 HP listed in specifications, 4.7 HP in description)
Tank Volume	80 Gallons
Maximum Pressure	155 Pound per Square Inch (psi)
Air Flow Capacity	14 Cubic Feet Per Minute (CFM) at 90 psi
Maximum Current	11.33 Amps (for 230V)
Noise Level	55 Decibels
Item Weight	354 Pounds
Material Type	Alloy Steel
Included Components	Filter
Recommended Uses	Air Brushing, Drilling, Nailing, Spraying

8. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact Powermate Vx customer support. Keep your proof of purchase for warranty claims.

8.1 Customer Support

If you require technical assistance, replacement parts, or have questions regarding your PowerMate Vx PLA4708065 air compressor, please contact the manufacturer's customer support. Contact details are typically found on the product packaging or the official Powermate Vx website.

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