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› Rolair DC208VN-N 2 HP Twin Tank Air Compressor User Manual

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Model: DC208VN-N

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Rolair DC208VN-N 2 HP Twin Tank Air Compressor. Please read this manual thoroughly before operating the compressor to ensure proper use and to prevent injury or damage.

The Rolair DC208VN-N is a robust 2-horsepower air compressor designed for high-pressure air-powered tools. It delivers 8.8 cubic feet per minute (CFM) at 90 pounds per square inch (PSI) and features a 9-gallon twin tank capacity. This unit is dual voltage, operating at either 115-volts or 230-volts, and includes overload protection for the motor. An air-cooled aftercooler prevents overheating, and its double-cylinder single-stage pump ensures efficient operation. The wheelbarrow design facilitates portability.



Figure 1: Rolair DC208VN-N 2 HP Twin Tank Air Compressor. This image shows the complete compressor unit with its twin tanks, motor, pump, and wheelbarrow-style frame.

2. SAFETY INFORMATION

Always prioritize safety when operating any power equipment. Failure to follow these safety guidelines can result in serious injury or property damage.

2.1 General Safety

- **Read the Manual:** Understand all instructions and warnings before use.
- **Eye Protection:** Always wear ANSI-approved safety glasses or goggles.
- **Hearing Protection:** Wear hearing protection during operation, as the compressor can produce significant noise (71 dB).
- **Proper Attire:** Do not wear loose clothing or jewelry that could get caught in moving parts.
- **Clear Work Area:** Keep the work area clean, well-lit, and free of obstructions.
- **Keep Children Away:** Do not allow children or untrained personnel near the compressor during operation.

2.2 Electrical Safety

- **Grounding:** Ensure the compressor is properly grounded to prevent electrical shock.
- **Voltage Selection:** Verify the compressor is set to the correct voltage (115V or 230V) for your power supply before connecting. Incorrect voltage can damage the motor.
- **Extension Cords:** If an extension cord is necessary, use only a heavy-duty, grounded cord of appropriate gauge and length.
- **Disconnect Power:** Always disconnect power before performing any maintenance or adjustments.

2.3 Pressure Safety

- **Pressure Relief Valve:** Never tamper with or remove the pressure relief valve. It is a critical safety device.
- **Tank Integrity:** Do not modify or repair the air tank. Any damage to the tank requires professional inspection or

replacement.

- **Maximum Pressure:** Do not exceed the maximum operating pressure of the compressor or any connected tools.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your Rolair air compressor:

- **Motor:** 2 HP electric motor with overload protection.
- **Pump:** Double-cylinder, single-stage pump for efficient air compression.
- **Air Tanks:** Two 9-gallon tanks for air storage.
- **Pressure Switch:** Automatically starts and stops the motor to maintain tank pressure.
- **Regulator:** Adjusts the output air pressure to your tools.
- **Gauges:** Display tank pressure and regulated output pressure.
- **Safety Valve:** Releases pressure if the tank pressure exceeds a safe limit.
- **Drain Valves:** Located at the bottom of the tanks for moisture removal.
- **Air Filter:** Protects the pump from dust and debris.
- **Glass Oil Gauge:** Allows for easy monitoring of the oil level.
- **Aftercooler:** Air-cooled component to prevent overheating.



Figure 2: Cutaway view of the Rolair air compressor pump. This image illustrates the internal components of the pump, including the piston, connecting rod, and crankshaft, highlighting the double-cylinder, single-stage design.

4. SETUP

4.1 Unpacking and Inspection

1. Carefully remove the compressor from its packaging.
2. Inspect the unit for any shipping damage. If damage is found, contact your dealer immediately.
3. Ensure all components listed in the packing list are present.

4.2 Placement

- Place the compressor on a firm, level surface to prevent tipping.
- Ensure adequate ventilation around the unit to prevent overheating. Maintain at least 12 inches of clearance from walls or other obstructions.
- Keep the compressor away from heat sources, flammable materials, and excessive dust.

4.3 Electrical Connection and Voltage Selection

The DC208VN-N is a dual voltage unit. It can operate on either 115V or 230V. **It is crucial to select the correct voltage before connecting to power.**

1. Locate the voltage selector switch or wiring diagram on the motor.
2. Set the compressor to the desired voltage (115V or 230V) according to your power supply. If unsure, consult a qualified electrician.
3. Connect the compressor to a dedicated, grounded electrical outlet with the appropriate amperage rating for the selected voltage.

4.4 Initial Oil Fill/Check

The compressor may be shipped without oil or with a minimal amount for shipping. Always check the oil level before first use.

1. Locate the glass oil gauge on the pump.
2. Ensure the oil level is between the minimum and maximum marks on the gauge.
3. If low, add Rolair-approved compressor oil through the oil fill cap until the correct level is reached. Do not overfill.

5. OPERATING INSTRUCTIONS

5.1 Starting the Compressor

1. Ensure the power cord is securely plugged into a grounded outlet.
2. Turn the pressure switch to the