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DEWALT DXCM271.COM

DEWALT 27 Gallon Vertical Air Compressor Instruction Manual

Model: DXCM271.COM | Brand: DEWALT

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your DEWALT 27 Gallon Vertical Air Compressor (Model: DXCM271.COM). Please read this manual thoroughly before operating the compressor to ensure proper use and to prevent injury or damage.

The DEWALT DXCM271.COM is a 1.7 HP, 27-gallon oil-free vertical air compressor designed for various home improvement and garage applications. It features a low volt easy start motor and operates at a quiet 78 dBA.

2. Important Safety Information

Always observe basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

- **Read All Instructions:** Familiarize yourself with the compressor's controls and proper use.
- **Electrical Safety:** Ensure the power source matches the compressor's requirements (120 Volts, 15 Amps). Do not use in wet conditions.
- **Personal Protective Equipment:** Always wear safety glasses or goggles. Hearing protection is recommended during extended use.
- **Ventilation:** Operate the compressor in a well-ventilated area.
- **Pressure Release:** Always drain the tank and release all air pressure before performing maintenance or moving the unit.
- **Hot Surfaces:** The compressor pump and motor can become hot during operation. Avoid contact.
- **Children and Bystanders:** Keep children and bystanders away from the operating compressor.

3. Components and Features

The DEWALT DXCM271.COM air compressor is designed for portability and ease of use. Key components include:

- **27 Gallon Vertical Tank:** Provides ample air storage and a space-saving design.
- **1.7 HP Oil-Free Motor:** Delivers powerful performance without the need for oil changes.
- **Control Panel:** Features pressure gauges, regulator, and quick-connect coupler.
- **Wheels and Handle:** For easy mobility.
- **Drain Valve:** Located at the bottom of the tank for moisture removal.



Figure 3.1: Front view of the DEWALT 27 Gallon Vertical Air Compressor, showing its yellow tank, black motor housing, control panel, and wheels.



Figure 3.2: Angled view of the DEWALT 27 Gallon Vertical Air Compressor, highlighting the handle and control panel from a side perspective.



Figure 3.3: Rear view of the DEWALT 27 Gallon Vertical Air Compressor, showing the motor and tank from the back.



Figure 3.4: Side view of the DEWALT 27 Gallon Vertical Air Compressor, illustrating its vertical design and mobility wheels.



Figure 3.5: Close-up view of the control panel, showing the two pressure gauges, regulator knob, and quick-connect air outlet.



Figure 3.6: Angled close-up of the control panel and motor housing, showing the power switch and air lines.

4. Setup and Initial Operation

4.1 Unpacking and Inspection

- Carefully remove the compressor from its packaging.
- Inspect for any shipping damage. If damaged, do not operate and contact DEWALT customer service.
- Ensure all components listed in the packing list are present.

4.2 Placement

- Place the compressor on a firm, level surface.
- Ensure adequate ventilation around the unit. Do not block air vents.
- Keep the compressor at least 12 inches away from walls or other obstructions.

4.3 Electrical Connection

- Connect the compressor to a grounded 120 Volt, 15 Amp dedicated circuit.
- Avoid using extension cords if possible. If necessary, use a heavy-duty outdoor-rated extension cord (minimum 12 gauge) as short as possible.

4.4 Break-in Procedure (First Use)

- Open the drain valve at the bottom of the tank.
- Turn on the compressor and let it run for 15-20 minutes with the drain valve open. This helps to break in the motor and pump components.
- After the break-in period, close the drain valve. The compressor is now ready for use.

5. Operating Instructions

5.1 Starting the Compressor

1. Ensure the drain valve is closed.
2. Plug the compressor into a suitable electrical outlet.
3. Flip the ON/OFF switch to the "ON" position. The compressor will start to build pressure.
4. The motor will automatically shut off when the tank reaches its maximum pressure (200 PSI).

5.2 Adjusting Air Pressure

1. Attach your air tool or hose to the quick-connect coupler.
2. Turn the regulator knob (usually located near the output gauge) clockwise to increase pressure and counter-clockwise to decrease pressure.
3. Monitor the regulated pressure gauge to set the desired output pressure for your application.

5.3 Applications

This compressor is suitable for a variety of tasks, including:

- Inflating tires (e.g., car, bicycle, sports equipment).
- Powering pneumatic tools (e.g., nail guns, impact wrenches, spray guns).
- Air brushing.
- General cleaning with an air blow gun.



Figure 5.1: A user inflating a car tire using the DEWALT 27 Gallon Vertical Air Compressor, demonstrating its utility for automotive tasks.



Figure 5.2: A user performing spray painting with the DEWALT 27 Gallon Vertical Air Compressor, showcasing its application for painting projects.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your air compressor. Always unplug the compressor and release all air pressure before performing any maintenance.

6.1 Daily Maintenance

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

6.2 Weekly/Monthly Maintenance

- **Clean Air Filter:** Inspect and clean the air filter if it appears dirty. Refer to the filter housing for cleaning instructions (typically involves blowing with compressed air or washing with soap and water, then drying thoroughly).

- **Inspect Hoses and Fittings:** Check all air hoses and fittings for leaks, cracks, or damage. Replace any damaged components.

6.3 Storage

- Before storing, drain all moisture from the tank.
- Store the compressor in a clean, dry location, protected from extreme temperatures.
- Ensure the power cord is neatly wrapped and secured.

7. Troubleshooting

Problem	Possible Cause	Solution
Compressor does not start or stops unexpectedly.	No power to unit. Thermal overload switch tripped. Low voltage.	Check power cord, outlet, and circuit breaker. Allow compressor to cool down for 10-15 minutes, then press reset button (if applicable). Ensure dedicated circuit and proper gauge extension cord if used.
Air leaks.	Loose fittings. Damaged hose or quick-connect. Drain valve open or faulty.	Tighten all fittings. Replace damaged components. Close drain valve fully; replace if faulty.
Compressor runs continuously or frequently.	Air leak in system. Excessive air consumption by tool. Pressure switch malfunction.	Check for and repair air leaks. Ensure tool's SCFM requirement is within compressor's capacity. Contact DEWALT service.

8. Specifications

Feature	Specification
Model Number	DXCM271.COM
Tank Capacity	27 Gallons
Motor Horsepower	1.7 HP
Power Source	Corded Electric
Voltage	120 Volts
AC Adapter Current	15 Amps
Air Flow Capacity (SCFM @ 90 PSI)	5.1 SCFM
Air Flow Capacity (SCFM @ 40 PSI)	6.8 SCFM

Feature	Specification
Maximum Operating Pressure	200 PSI
Noise Level	78 dBA
Special Feature	Oil Free
Item Weight	136 Pounds
Product Dimensions (L x W x H)	26.8" x 23.5" x 54.5"
UPC	846212070536

9. Warranty and Support

DEWALT provides a limited warranty for its products. For specific warranty details, please refer to the warranty card included with your purchase or visit the official DEWALT website.

For technical assistance, replacement parts, or warranty claims, please contact DEWALT Customer Service:

- **Website:** www.dewalt.com
- **Phone:** Refer to the DEWALT website for regional contact numbers.

Protection plans are also available for purchase, offering extended coverage beyond the standard manufacturer's warranty. Examples include 3-Year and 4-Year Protection Plans.

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