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Truper COMP-50LV

TRUPER COMP-50LV 13-Gal Oil-Lubricated Air Compressor User Manual

Model: COMP-50LV | Brand: Truper

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Truper COMP-50LV 13-Gallon Oil-Lubricated Air Compressor. Please read this manual thoroughly before operating the unit to ensure proper use and to prevent injury or damage.
The Truper COMP-50LV is a 120-Volt, 13-gallon (50 L) oil-lubricated vertical air compressor designed for various applications including drilling, air brushing, spraying, and nailing. It features 100% oil continuous duty, automatic and manual start, and thermal overheat protection.

2. Safety Instructions

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the compressor's operation and warnings.
- **Electrical Safety:** Ensure the power source matches the compressor's voltage (120V). Do not operate in wet conditions.
- **Personal Protective Equipment:** Always wear safety glasses or goggles when operating the compressor. Hearing protection is recommended due to noise levels.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent heat buildup.
- **Pressure Release:** Always drain the air tank after each use to prevent moisture buildup and corrosion.
- **Maintenance:** Disconnect power before performing any maintenance or repairs.
- **Children and Bystanders:** Keep children and bystanders away from the operating compressor.

3. Components Overview

The Truper COMP-50LV air compressor is equipped with several key components for its operation and monitoring.



Figure 3.1: Front view of the Truper COMP-50LV air compressor, showing the main tank, motor, and control panel with gauges.



Figure 3.2: Side view of the Truper COMP-50LV air compressor, illustrating its dimensions: Height 92 cm (36 inches), Base 43 cm (17 inches), and Depth 41 cm (16 inches).

- **Air Tank:** 13-gallon (50 L) capacity for compressed air storage.
- **Motor/Pump Assembly:** The heart of the compressor, responsible for pressurizing air.
- **Pressure Gauges:** Two manometers for monitoring maximum tank pressure and adjustable outlet pressure.
- **Pressure Regulator:** Allows adjustment of the air pressure delivered to tools.
- **Quick-Connect Couplers:** Two built-in 1/4" brass quick-connect couplers for easy hose attachment.
- **Drain Valve:** Located at the bottom of the tank for draining condensed moisture.
- **Wheels and Handle:** For portability and ease of movement.

4. Setup

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage.
2. **Oil Fill:** The compressor requires 450 ml (15 oz) of SAE30 monograde oil. Locate the oil fill plug and fill to the appropriate level indicated on the dipstick or sight glass. *Do not overfill.*
3. **Placement:** Place the compressor on a firm, level surface in a well-ventilated area. Ensure adequate space around the unit for air circulation.
4. **Electrical Connection:** Connect the compressor to a grounded 120V, 60Hz electrical outlet. Ensure the circuit can handle the compressor's power requirements.
5. **Attach Hoses:** Connect your air hoses (1/4", 3/8", or 1/2" compatible) to the quick-connect couplers.

5. Operating Instructions

5.1 Initial Start-Up

1. Ensure the drain valve is closed.
2. Turn the pressure regulator knob fully counter-clockwise to the lowest setting.
3. Plug in the compressor. The unit may start automatically or require manual activation depending on the model's specific switch.
4. Allow the tank to fill completely until the motor shuts off automatically. This indicates the maximum pressure (116 PSI / 8 bar) has been reached.
5. Check for any air leaks by listening for hissing sounds.

5.2 Adjusting Pressure

- With the compressor running or the tank pressurized, turn the pressure regulator knob clockwise to increase the output pressure.
- Monitor the adjustable pressure gauge to set the desired working pressure for your air tool.
- Turn the knob counter-clockwise to decrease pressure.

5.3 Shutting Down

1. Turn off the compressor by unplugging it or using the power switch if available.
2. Bleed off any remaining air pressure from the hose and tool.
3. Slowly open the drain valve at the bottom of the tank to release all air and condensed moisture. Close the valve once the tank is empty.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your air compressor.

- **Daily:**
  - Drain moisture from the air tank.
  - Check oil level and add if necessary.
- **Monthly (or every 50 hours of operation):**
  - Inspect air filter and clean or replace if dirty.
  - Check for loose bolts or fittings and tighten as needed.
- **Annually (or every 200 hours of operation):**
  - Change the compressor oil. Use only SAE30 monograde oil.
  - Inspect safety valve for proper operation.

Important: Always disconnect the power supply before performing any maintenance.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Compressor does not start.	No power, tripped circuit breaker, thermal overload.	Check power connection, reset breaker, allow motor to cool if overheated.
Compressor runs continuously or cycles too frequently.	Air leak in tank or fittings, faulty pressure switch.	Check all connections for leaks, tighten fittings. Consult service if pressure switch is suspected.
Low air pressure at outlet.	Regulator set too low, air leak in hose/tool, clogged air filter.	Adjust regulator, check for leaks, clean/replace air filter.
Excessive noise or vibration.	Loose components, low oil level, worn parts.	Check and tighten all fasteners, ensure proper oil level, inspect for worn parts.
Moisture in air line.	Tank not drained regularly.	Drain tank daily after use.

8. Specifications

- **Model:** COMP-50LV
- **Voltage:** 120V
- **Frequency:** 60 Hz
- **Tank Capacity:** 13 Gallons (50 Liters)
- **Maximum Pressure:** 116 PSI (8 bar)
- **Rated Power:** 2 1/2 HP
- **Maximum Power:** 3 1/2 HP
- **Speed:** 3,450 rpm
- **Air Flow:** 4.4 CFM @ 40 PSI, 3.4 CFM @ 90 PSI
- **Oil Type:** SAE30 Monograde Oil (450 ml / 15 oz included)
- **Dimensions (L x W x H):** 16.3 x 16.54 x 38.43 inches (41 x 43 x 92 cm)
- **Weight:** 71 lb (32 kg)
- **Special Features:** Automatic Shut-Off, Thermal Overheat Protection

9. Warranty and Support

For warranty information or technical support, please contact Truper customer service. Keep your purchase receipt as proof of purchase.

While specific warranty details are not provided in this manual, Truper products typically come with a manufacturer's warranty covering defects in materials and workmanship. Please refer to the warranty card included with your product or visit the official Truper website for detailed terms and conditions.

For assistance, you may also refer to the seller's information:**PROFESSIONAL TOOL CENTER**.

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