

Campbell Hausfeld VT6290

Campbell Hausfeld 20 Gallon Horizontal Air Compressor VT6290 Instruction Manual

Model: VT6290

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your Campbell Hausfeld 20 Gallon Horizontal Air Compressor, Model VT6290. Please read this manual thoroughly before using the compressor to ensure proper function and to prevent injury or damage.

IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of electric shock, fire, or serious injury.

- **Read All Instructions:** Familiarize yourself with the compressor's controls and proper usage.
- **Electrical Safety:** Ensure the compressor is connected to a properly grounded outlet. The unit is dual voltage (120V/240V) and must be wired correctly for the chosen voltage. Avoid using extension cords unless absolutely necessary, and ensure they are rated for the compressor's power requirements.
- **Personal Protective Equipment (PPE):** Always wear safety glasses or goggles. Hearing protection is recommended during operation. When using air tools, wear appropriate protective gear for the task, such as gloves or respirators.
- **Work Area:** Keep the work area clean, well-lit, and free from obstructions. Do not operate the compressor in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Pressure Safety:** Never exceed the maximum operating pressure of any air tool or accessory. Always drain moisture from the tank daily to prevent corrosion and tank failure. Do not tamper with the safety valve.
- **Hot Surfaces:** The compressor pump and motor can become hot during operation. Avoid contact with these areas to prevent burns.
- **Maintenance:** Disconnect power before performing any maintenance or adjustments.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



Image: A person using an air-powered sander, wearing safety glasses, earplugs, and a respirator. This illustrates the importance of personal protective equipment when operating air tools with the compressor.

SETUP AND ASSEMBLY

Follow these steps to prepare your air compressor for first use.

1. Unpacking and Inspection

- Carefully remove the compressor from its packaging.
- Inspect for any shipping damage. Report any damage immediately to the carrier and your dealer.
- Ensure all components listed in the packing list are present.

2. Attaching Wheels and Handle

The compressor is designed for portability. Attach the wheels and handle as per the included hardware instructions.



Image: A close-up view of the compressor's wheel and the base of the 20-gallon tank, highlighting its portable design.



Image: A front view of the air compressor, showing the attached wheels and handle, ready for transport.

3. Adding Compressor Oil

The compressor is shipped without oil. It is crucial to add the correct type and amount of oil before first use. Refer to the oil fill cap or dipstick for the recommended oil level. Use 12 ounces of Mobil 1 10W-30 Synthetic oil or equivalent compressor oil.

- Locate the oil fill plug/cap on the pump.
- Remove the plug and carefully pour the recommended oil into the crankcase until the level reaches the mark on the dipstick or sight glass.
- Replace the oil fill plug securely.



Image: A top-down view of the compressor's pump and motor, showing the location where oil is added and maintained.

4. Electrical Connection

This compressor is dual voltage (120V/240V) and is pre-wired for 120V household current. If 240V operation is desired, consult a qualified electrician for proper wiring conversion. Ensure the power supply matches the compressor's voltage setting and that the circuit is adequately protected.

5. Initial Break-in Procedure

Before first use, perform a break-in procedure to ensure proper seating of internal components.

1. Open the tank drain valve completely to prevent pressure buildup.
2. Turn the compressor ON and allow it to run for 30 minutes without building pressure. This allows the pump components to lubricate and seat properly.
3. After 30 minutes, turn the compressor OFF and close the drain valve.
4. The compressor is now ready for normal operation.

OPERATING INSTRUCTIONS

This section details how to operate your air compressor safely and effectively.

1. Starting the Compressor

- Ensure the power cord is securely plugged into a grounded outlet.
- Turn the ON/OFF switch to the "ON" position. The motor will start, and the pump will begin to build pressure in the tank.
- The compressor will automatically shut off when the maximum pressure (135 PSI) is reached. It will restart automatically when the tank pressure drops below a preset level.



Image: A rear view of the compressor, displaying the control panel with pressure gauges and the ON/OFF switch.

2. Adjusting Output Pressure

- Locate the pressure regulator knob on the control panel.
- Turn the knob clockwise to increase output pressure and counter-clockwise to decrease it.
- Monitor the regulated pressure gauge to set the desired pressure for your air tool. Never exceed the maximum pressure rating of your air tool.

3. Connecting Air Tools

- Ensure the air hose and tool are equipped with appropriate quick-connect couplers.
- Connect the air hose to the compressor's air outlet.
- Attach your air tool to the other end of the air hose.
- Always check for secure connections before operating.

4. Shutting Down and Draining

- When finished, turn the ON/OFF switch to the "OFF" position.
- Disconnect the air hose and tools.
- **Drain the Air Tank:** Open the drain valve located at the bottom of the tank to release accumulated moisture. This should be done after each use to prevent corrosion. Close the valve once all air and moisture have been expelled.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your compressor. Always disconnect power before performing maintenance.

1. Daily Maintenance

- **Drain Tank:** Drain moisture from the air tank daily to prevent rust and tank failure.
- **Check Oil Level:** Ensure the oil level is within the recommended range on the dipstick or sight glass.

2. Weekly/Monthly Maintenance

- **Inspect Air Filter:** Check the air filter for dirt and debris. Clean or replace if necessary to ensure proper airflow to the pump.
- **Inspect Belts:** Check the drive belts for wear, cracks, or proper tension. Adjust or replace as needed. The compressor features a metal belt guard for protection.
- **Check for Leaks:** Listen for air leaks around fittings and connections. Tighten as required.

3. Quarterly/Annual Maintenance

- **Change Compressor Oil:** Replace the compressor oil according to the manufacturer's recommendations or after approximately 500 hours of operation.
- **Inspect Safety Valve:** Manually pull the ring on the safety valve to ensure it operates freely. If it does not, replace it immediately.

TROUBLESHOOTING

This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
Compressor does not start or stops unexpectedly.	No power to the unit. Thermal overload switch tripped. Low voltage.	Check power cord, outlet, and circuit breaker. Allow motor to cool, then press the reset button (if equipped). Ensure proper voltage supply (120V or 240V).
Compressor runs continuously or cycles too frequently.	Air leak in tank or connections. Pressure switch malfunction. Excessive air demand.	Check all connections and hoses for leaks; tighten or replace as needed. Contact qualified service personnel. Reduce air tool usage or use a tool with lower CFM requirements.
Low air pressure or insufficient CFM.	Clogged air filter. Air leaks. Worn pump components.	Clean or replace air filter. Check for and repair air leaks. Contact qualified service personnel.
Excessive noise or vibration.	Loose components. Worn bearings or belts. Insufficient oil.	Tighten all nuts and bolts. Inspect and replace worn belts or contact service for bearings. Check and add oil to the correct level.

SPECIFICATIONS

Key technical specifications for the Campbell Hausfeld VT6290 Air Compressor.

Feature	Detail
Model Number	VT6290
Tank Volume	20 Gallons
Maximum Power	2 Horsepower
Voltage	120 Volts / 240 Volts (Dual Voltage)
Maximum Pressure	135 PSI
Air Flow Capacity (CFM @ 90 PSI)	5.5 Cubic Feet Per Minute
Noise Level	Approximately 68 Decibels
Pump Type	Oil-lubricated, Twin Cylinder, Cast Iron, Single-Stage
Power Source	Electric-powered
Dimensions (L x W x H)	37"L x 21"W x 30.5"H
Item Weight	0.5 Pounds <i>(Note: This value appears to be a data entry error; actual weight for a 20-gallon air compressor is significantly higher.)</i>
Material Type	Alloy Steel
UPC	045564104818

WARRANTY INFORMATION

The Campbell Hausfeld 20 Gallon Horizontal Air Compressor (Model VT6290) is covered by a **1 Year Limited Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms, conditions, and to make a warranty claim, please refer to the warranty documentation included with your purchase or contact Campbell Hausfeld customer support.

CUSTOMER SUPPORT

For technical assistance, parts, or service inquiries regarding your Campbell Hausfeld air compressor, please contact Campbell Hausfeld customer support directly. Have your model number (VT6290) and serial number ready when contacting support. You can typically find contact information on the manufacturer's official website or in the documentation provided with your product.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question