

Campbell Hausfeld VT6183

CAMPBELL HAUSFELD VT6183 20 Gallon Horizontal Air Compressor User Manual

Model: VT6183

1. INTRODUCTION

This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your CAMPBELL HAUSFELD VT6183 20 Gallon Horizontal Air Compressor. This robust, oil-lubricated compressor is designed for versatile home and workshop use, offering a 20-gallon tank, 135 max PSI, and 5.5 CFM at 90 PSI. It features a dual voltage motor (120V/240V) for flexible power options and semi-pneumatic wheels for enhanced mobility. Please read this manual thoroughly before operating the compressor to ensure proper function and safety.

2. IMPORTANT SAFETY INFORMATION

Always observe basic safety precautions when using this air compressor to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the compressor's controls and proper usage.
- **Electrical Safety:** Ensure the power source matches the compressor's voltage requirements (120V or 240V). Use a properly grounded outlet and extension cords rated for the compressor's power.
- **Personal Protective Equipment (PPE):** Always wear safety glasses or goggles. Hearing protection is recommended during extended use.
- **Ventilation:** Operate the compressor in a well-ventilated area. Do not operate near flammable liquids or gases.
- **Hot Surfaces:** The compressor pump and motor can become hot during operation. Avoid contact to prevent burns.
- **Pressure Relief Valve:** Never tamper with or remove the pressure relief valve. It is a critical safety device.
- **Drain Tank Regularly:** Condensation will accumulate in the tank. Drain it daily to prevent rust and tank failure.
- **Secure Connections:** Ensure all air hoses and fittings are securely connected before operation.
- **Children and Bystanders:** Keep children and bystanders away from the operating compressor.

3. PRODUCT COMPONENTS

The CAMPBELL HAUSFELD VT6183 air compressor consists of several key components designed for efficient air compression and delivery.



Figure 3.1: Overview of the Campbell Hausfeld 20 Gallon Horizontal Air Compressor. This image displays the compressor from a front-side angle, showing the black horizontal tank, the motor, the oil-lubricated pump, pressure gauges, control panel, and one of the semi-pneumatic wheels. The handle and metal belt guard are also visible.

- **Air Tank:** A 20-gallon horizontal tank stores compressed air.
- **Motor:** Provides power to the pump. Features dual voltage capability (120V/240V).
- **Pump:** Oil-lubricated for durability and efficient compression.
- **Pressure Switch:** Automatically starts and stops the motor to maintain tank pressure.
- **Pressure Gauges:** Display tank pressure and regulated outlet pressure.
- **Regulator:** Allows adjustment of the air pressure delivered to tools.
- **Air Outlet:** Connection point for air hoses.
- **Drain Valve:** Located at the bottom of the tank for draining condensation.
- **Semi-Pneumatic Wheels:** Facilitate easy movement and portability.
- **Handle:** For convenient transport of the unit.
- **Metal Belt Guard:** Fully enclosed for safety, protecting moving parts.

4. SETUP AND ASSEMBLY

Before operating your compressor, follow these steps for proper setup and assembly.

4.1 Unpacking

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

4.2 Attaching Wheels and Handle

The semi-pneumatic wheels and handle need to be attached for portability.

1. Tilt the compressor to access the axle mounts.
2. Slide the wheels onto the axles and secure them with the provided hardware (washers, cotter pins/nuts).
3. Attach the handle to the designated mounting points on the tank or frame, securing it with bolts and nuts.

4.3 Adding/Checking Oil

This compressor uses an oil-lubricated pump. It is crucial to ensure proper oil levels before first use.

1. Locate the oil fill plug/dipstick on the pump.
2. Remove the plug/dipstick and check the oil level. It should be at the full mark.
3. If low, add appropriate compressor oil (refer to specifications for type) until the level reaches the full mark. Do not overfill.
4. Replace the oil fill plug/dipstick securely.

4.4 Electrical Connection (Dual Voltage)

The compressor is capable of operating on either 120V or 240V. Ensure the compressor is configured for your power supply.

- **For 120V Operation:** Connect the compressor to a grounded 120V, 20-amp dedicated circuit.
- **For 240V Operation:** The compressor may require re-wiring by a qualified electrician to switch from 120V to 240V. Refer to the wiring diagram in the full manual or consult a professional. Connect to a grounded 240V dedicated circuit.
- Always use a heavy-duty extension cord if necessary, ensuring it is rated for the compressor's amperage and voltage.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your air compressor.

5.1 Pre-Operation Checks

1. Verify the oil level is correct.
2. Ensure the drain valve at the bottom of the tank is closed.
3. Check that all air connections are secure.
4. Confirm the pressure regulator is set to its lowest pressure setting.

5.2 Starting the Compressor

1. Plug the power cord into a suitable grounded electrical outlet.
2. Turn the pressure switch to the 'ON' position. The motor will start, and the tank will begin to fill with air.

3. Allow the compressor to build up to its maximum pressure and shut off automatically. This indicates proper function of the pressure switch.

5.3 Adjusting Pressure and Connecting Tools

1. Connect your air tool to the air outlet using a compatible air hose.
2. Slowly turn the regulator knob clockwise to increase the outlet pressure to the recommended PSI for your tool. The regulated pressure gauge will show the output pressure.
3. Begin using your air tool. The compressor will cycle on and off as needed to maintain tank pressure.



Figure 5.1: An individual utilizing an air-powered orbital sander, connected to an air compressor via a hose. This demonstrates a typical application for the compressor in a workshop setting, highlighting the use of air tools for tasks like surface preparation.

5.4 Shutting Down

1. Turn the pressure switch to the 'OFF' position.
2. Unplug the power cord from the electrical outlet.
3. Bleed any remaining air from the hose and tool.

4. Open the drain valve at the bottom of the tank to release moisture and residual air. Close the valve once drained.

6. MAINTENANCE

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

6.1 Daily Maintenance

- **Drain Tank:** Open the drain valve to release accumulated moisture from the air tank. This prevents rust and corrosion.
- **Check Oil Level:** Ensure the oil level in the pump is at the proper mark. Add oil if necessary.

6.2 Monthly Maintenance

- **Clean Air Filter:** Remove and clean the air filter element. Replace if damaged or excessively dirty. A clogged filter reduces efficiency.
- **Inspect Belt:** Check the drive belt (under the metal belt guard) for wear, cracks, or proper tension. Adjust or replace if needed.
- **Check for Leaks:** Listen for air leaks around fittings and connections. Tighten as necessary.

6.3 Annual Maintenance

- **Change Pump Oil:** Replace the pump oil with the recommended type and viscosity. Refer to the full manual for specific instructions and oil type.
- **Inspect Safety Valve:** Manually pull the ring on the safety relief valve to ensure it operates freely.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your air compressor.

Problem	Possible Cause	Solution
Compressor does not start or stops frequently.	No power; tripped circuit breaker; low voltage; pressure switch malfunction.	Check power cord and outlet; reset circuit breaker; ensure proper voltage supply; consult service if pressure switch is faulty.
Low air pressure or slow recovery.	Air leaks; clogged air filter; worn pump components; regulator set too low.	Check all connections for leaks and tighten; clean/replace air filter; adjust regulator; consult service for pump issues.
Excessive noise or vibration.	Loose components; worn bearings; insufficient oil; motor/pump issues.	Tighten all fasteners; check oil level; consult service for internal component wear.
Moisture in air line.	Tank not drained regularly; high humidity.	Drain tank daily; consider an in-line air dryer for sensitive applications.

8. SPECIFICATIONS

Key technical specifications for the CAMPBELL HAUSFELD VT6183 Air Compressor.

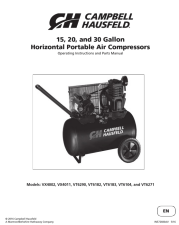




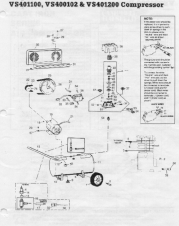
Feature	Specification
Model Number	VT6183
Tank Capacity	20 Gallons
Maximum Operating Pressure	135 PSI (9.3 Bars)
Air Flow Capacity (at 90 PSI)	5.5 CFM (15.61 Liters Per Minute)
Voltage	120V / 240V (Dual Voltage)
Motor Horsepower	2 HP
Pump Type	Oil Lubricated
Item Weight	150 Pounds
Product Dimensions	37 x 21 x 31 inches
Special Feature	Metal Belt Guard
UPC	045564101381

9. WARRANTY INFORMATION

This CAMPBELL HAUSFELD VT6183 Air Compressor comes with a **1 Year Limited Warranty**. For specific terms, conditions, and to register your product, please refer to the warranty card included with your purchase or visit the official Campbell Hausfeld website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to order replacement parts, please contact Campbell Hausfeld customer support. Refer to the contact information provided in your product packaging or on the official Campbell Hausfeld website for the most current support options.

	<p>Campbell Hausfeld 15, 20, 30 Gallon Horizontal Portable Air Compressor Manual</p> <p>Operating instructions and parts manual for Campbell Hausfeld 15, 20, and 30 gallon horizontal portable air compressors. Covers safety, installation, operation, maintenance, and troubleshooting for models VX4002, VX4011, VT6290, VT6182, VT6183, VT6104, and VT6271. Visit www.campbellhausfeld.com for support.</p>
	<p>Campbell Hausfeld DC03009 3 Gallon Air Compressor: Operating Instructions and Parts Manual</p> <p>This manual provides operating instructions, safety guidelines, specifications, and parts information for the Campbell Hausfeld DC03009 3 Gallon Air Compressor. Designed for DIY home and automotive tasks, it ensures safe and effective use.</p>
	<p>Campbell Hausfeld 1 Gallon Oilless Air Compressor Manual</p> <p>Official operating instructions, parts manual, safety guidelines, and maintenance information for the Campbell Hausfeld 1 Gallon Oilless Air Compressor, Model DC01001.</p>
	<p>Campbell Hausfeld Oilless Compressors Operating Instructions and Parts Manual</p> <p>Comprehensive operating instructions, safety guidelines, troubleshooting chart, and parts list for Campbell Hausfeld Oilless Compressors (models FP209501, FP209598, FP209599, FP209601, FP209699DB, FP209699DQ).</p>
	<p>Campbell Hausfeld Stationary Two-Stage Air Compressor Parts List and Specifications</p> <p>Official parts list and specifications for the Campbell Hausfeld Stationary Two-Stage Air Compressor, models CE8001 and TX2113. Includes detailed part numbers, diagrams, and dimensions.</p>
	<p>Campbell Hausfeld Compressor Exploded View and Parts List for VS401100, VS400102, VS401200, VS401400</p> <p>Comprehensive parts list and exploded view diagram for Campbell Hausfeld VS401100, VS400102, VS401200, and VS401400 air compressors, detailing component numbers and descriptions for maintenance and identification.</p>



20 Gallon
Air Compressor
VT6183

Dual Voltage for Everyday!

The Campbell Hausfeld 20 Gallon, 2HP horizontal portable air compressor (VT6183) powers a variety of air tools for the serious do-it-yourselfer, professional, or contractor. This product will provide up to 5,000* hours of life. With a dual-voltage motor that can operate on either 120V or 240V current, this versatile air compressor can work in a variety of locations. The large semi-pneumatic wheels make this unit easy to move from one job to the next. The heavy-duty, cast-iron, two-cylinder pump is designed for quiet operation, is oil lubricated for a long life and delivers up to 5.5 CFM of air at 90 PSI.




Nail Gunning


Inflation


Mobile Air Tool


Blowing


Painting


Sandblasting



Designed with you in mind
The VT6183 is designed for versatility. This unit powers a variety of different air tools for all job sites.

Heavy Duty, Cast Iron Pump
Oil-lubricated, Two-Cylinder Single-Stage Pump to increase longevity.

- Portable**
Semi-pneumatic wheels and convenient handles make this unit easy to move from one job to another.
- Safe Operation**
Full enclosed metal safe guard for protection.
- Dual Voltage**
Allows unit to be run at the normal household 120V for the everyday DIY customer or 240V for the business, contractor or serious DIY customer.

Specifications	
Model	VT6183
Tank Size	20 Gallon
Max PSI	135
Displacement	2.0HP
Phase	1
Voltage	120/240V
Amperage	15.67 A
CFM@90PSI	5.5 CFM
CFM@125PSI	4.8 CFM
Unit Weight	145 lbs.
Carton Size	37in x 21in x 31in
LWC	00000101001



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SAFETY
READ INSTRUCTIONS

VT6183-01-01

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20 Gallon Air Compressor **VT6183** Dual Voltage for Everyday The Campbell Hausfeld

20 Gallon, 2HP horizontal portable air compressor **VT6183** powers a variety of air tools for the serious do-it-yourselfer, professional, or contractor. This product will provide up to 5,000* hours of life. With a d...

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