**VELPAX VX1300-30**

# VELPAX VX1300-30 Ultra Quiet Oil-Free Air Compressor Instruction Manual

Model: VX1300-30

## 1. Important Safety Instructions

Read and understand all safety warnings and instructions before operating this air compressor. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Electrical Safety:** Ensure the power source matches the compressor's requirements (110V/60Hz). Use a properly grounded outlet. Do not operate in wet conditions.
- **Pressure Safety:** Never exceed the maximum operating pressure of 115 PSI. The safety valve is set to open at 128 PSI (0.88 MPa) to prevent over-pressurization. Do not tamper with or disable the safety valve.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating and ensure proper air intake.
- **Hearing Protection:** Although this compressor operates at a low noise level of 68 dB, prolonged exposure to noise can cause hearing damage. Always wear appropriate hearing protection.
- **Condensate Drainage:** Drain the air tank daily or after each use to prevent rust and maintain tank integrity.
- **Hose and Accessory Check:** Regularly inspect air hoses and fittings for wear, damage, or leaks. Replace any damaged components immediately to prevent accidents.
- **Overload Protection:** The compressor is equipped with overload protection. If the motor stops unexpectedly, allow it to cool before restarting.

## 2. Product Overview and Components

The VELPAX VX1300-30 is an ultra-quiet, oil-free air compressor designed for various applications, offering reliable performance with minimal maintenance. Its portable design makes it suitable for workshops, garages, and on-site tasks.

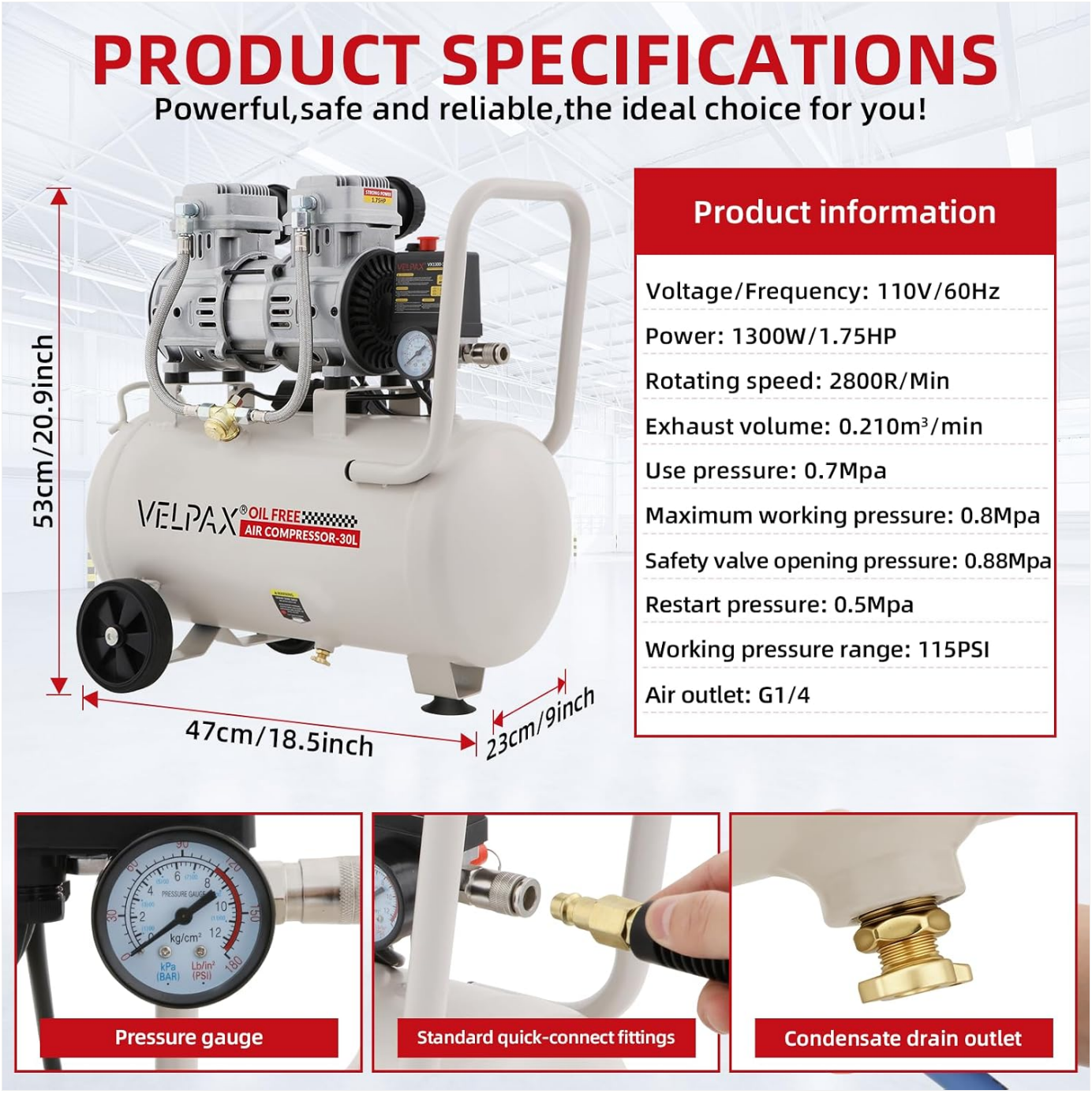



**Figure 2.1:** Labeled components of the VELPAX VX1300-30 Air Compressor, including the all-copper motor, silencer, overload protection, safety valve, portable handle, quick connect, pressure gauge, 8-gallon air tank, smooth rubber wheels, and condensate drain outlet.

### Key Features:

- **Ultra-Quiet Operation:** Operates at approximately 68 dB, significantly reducing noise in work environments.
- **Oil-Free Pump:** Eliminates the need for oil changes and reduces maintenance, providing clean air output.
- **Powerful Motor:** Equipped with a 1300W (1.75HP) all-copper motor for efficient performance.
- **8-Gallon (30L) Tank:** Provides ample air storage for sustained use.
- **High Airflow:** Delivers 7.42 CFM at 115 PSI for quick tool operation and tank recovery.
- **Portable Design:** Features smooth rubber wheels and an integrated handle for easy transport.
- **Safety Features:** Includes overload protection, a safety valve, and a cooling fan system.

## 3. Specifications

Detailed technical specifications for the VELPAX VX1300-30 Air Compressor.




**Figure 3.1:** Product information and specifications, including voltage, power, speed, exhaust volume, pressures, and air outlet type.

| Specification | Value |
|---|---|
| Model Number | VX1300-30 |
| Power Source | Corded Electric |
| Voltage/Frequency | 110V/60Hz |
| Motor Power | 1300W (1.75 HP) |
| Noise Level | 68 dB |
| Tank Capacity | 8 Gallons (30 Liters) |
| Air Flow Capacity | 7.42 CFM @ 115 PSI |

| Specification | Value |
| --- | --- |
| Maximum Working Pressure | 115 PSI (0.8 MPa) |
| Restart Pressure | 0.5 MPa |
| Safety Valve Opening Pressure | 128 PSI (0.88 MPa) |
| Air Outlet | G1/4 Standard Quick Connect |
| Special Features | Pressure Detection, Portable, Oil-Free |

## 4. Setup

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

### 4.1 Unpacking and Inspection

- Carefully remove the compressor from its packaging.
- Inspect the unit for any signs of shipping damage. If damage is found, do not operate and contact customer support.
- Ensure all components listed in the packing list are present.

### 4.2 Assembly (Wheels and Handle)

The compressor comes with pre-installed smooth rubber wheels and a portable handle for easy mobility.




**Figure 4.1:** The compressor's portable design, highlighting the smooth rubber wheels and integrated mobile handle for convenient transport.

- No complex assembly is required for the wheels or handle as they are integrated into the design.
- Ensure the wheels are securely attached before moving the unit.

### 4.3 Electrical Connection

- Connect the power cord to a grounded 110V/60Hz electrical outlet.
- Avoid using extension cords if possible. If an extension cord is necessary, ensure it is rated for the compressor's power requirements and is of adequate gauge to prevent voltage drop.

### 4.4 Initial Check

- Ensure the condensate drain valve at the bottom of the tank is fully closed before operation.
- Verify that the air outlet quick connect is free from obstructions.

## 5. Operating Instructions

Learn how to safely and effectively operate your air compressor.

## 5.1 Powering On and Building Pressure

- Plug the compressor into a suitable electrical outlet.
- Turn the power switch to the 'ON' position. The motor will start, and the tank will begin to fill with air.
- Monitor the pressure gauge. The compressor will automatically shut off once the maximum pressure of 115 PSI (0.8 MPa) is reached.
- The compressor will automatically restart when the tank pressure drops to 0.5 MPa (approximately 72 PSI) during use.

## 5.2 Connecting Air Tools

- Ensure the air tool is suitable for the compressor's pressure and airflow capabilities.
- Connect your air hose to the G1/4 quick connect air outlet on the compressor.
- Attach your pneumatic tool to the other end of the air hose.




**Figure 5.1:** The compressor's wide compatibility with various pneumatic tools, including nailers, spray guns, air drills, sanders, impact wrenches, and pneumatic screwdrivers.

## 5.3 Applications

The VELPAX VX1300-30 is suitable for a range of applications:

- **Tire Inflation:** Efficiently inflate vehicle tires, bicycle tires, and other inflatables.
- **Spray Painting:** Provides consistent airflow for various spray painting tasks.
- **Auto Repair:** Powers pneumatic tools for automotive maintenance and repair.
- **Woodwork Nailing:** Ideal for powering nail guns and other woodworking tools.




**Figure 5.2:** An individual using the VELPAX air compressor to inflate a car tire.

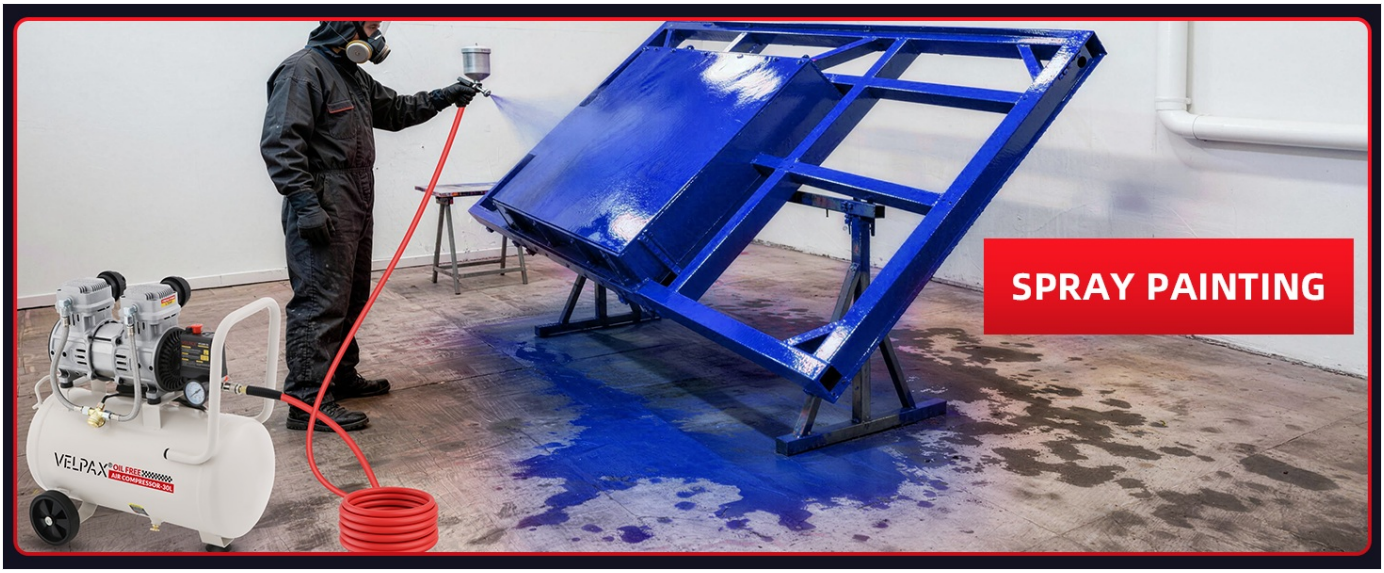



**Figure 5.3:** An individual using the VELPAX air compressor for spray painting a metal frame.




**Figure 5.4:** An individual using the VELPAX air compressor with an impact wrench for auto repair.




**Figure 5.5:** An individual using the VELPAX air compressor with a nail gun for woodworking.

### 5.4 Powering Off

- When finished, turn the power switch to the 'OFF' position.
- Disconnect the air hose from the compressor and release any remaining air pressure from the hose and tools.

## 6. Maintenance

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

### 6.1 Draining Condensate

- **Frequency:** Drain the air tank daily or after each use.
- **Procedure:** With the compressor off and depressurized, slowly open the drain valve located at the bottom of the tank to release accumulated moisture. Close the valve tightly once all water has drained.

### 6.2 Cleaning the Air Filter

The built-in air filter prevents dust intake, contributing to the compressor's longevity and clean air output.




**Figure 6.1:** The dual intake design with silencer and cooling fans, which house the air filters.

- **Frequency:** Inspect the air filter regularly (e.g., monthly or more often in dusty environments).
- **Procedure:** Remove the silencer/filter assembly. Clean the filter element by gently tapping out dust or using compressed air (from a separate source) to blow dirt from the inside out. Replace heavily soiled or damaged filters.

### 6.3 General Inspection

- Periodically check all nuts, bolts, and fittings for tightness.
- Inspect the power cord for any damage or fraying.
- Ensure the cooling fan system is free from obstructions to maintain efficient heat dissipation.

## 7. Troubleshooting

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

| Problem | Possible Cause | Solution |
|---|---|---|
| Compressor does not start or stops unexpectedly. | No power, tripped circuit breaker, motor overload, low voltage. | Check power connection and outlet. Reset circuit breaker. Allow motor to cool if overload protector tripped. Ensure adequate voltage supply. |
| Compressor runs continuously or does not build full pressure. | Air leak in tank or fittings, faulty pressure switch, check valve issue. | Check all connections and hoses for leaks (use soapy water). Contact customer support if pressure switch or check valve is suspected. |
| Excessive noise or vibration. | Loose components, worn motor bearings, unit not on a level surface. | Tighten all fasteners. Ensure compressor is on a stable, level surface. If noise persists, contact customer support. |
| Safety valve activates frequently. | Pressure switch malfunction, regulator set too high. | Ensure the pressure switch is functioning correctly and shutting off the compressor at 115 PSI. Do not adjust the safety valve. Contact customer support. |
| Moisture in air line. | Condensate not drained regularly. | Drain the air tank daily or after each use. Consider an in-line air dryer for sensitive applications. |

## 8. Warranty and Support

For warranty information or technical assistance, please contact VELPAX customer support. Keep your purchase receipt and model number (VX1300-30) readily available when contacting support.

- **Customer Support:** Refer to the contact information provided with your product packaging or visit the official VELPAX website.
- **Product Registration:** Registering your product may provide additional benefits and streamline warranty claims.


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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.

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

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