

ABAC OS20P

ABAC OS20P Silent Air Compressor 24L Instruction Manual

Model: OS20P

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your ABAC OS20P Silent Air Compressor. Please read this manual thoroughly before operating the compressor to ensure proper use and to prevent injury or damage. Keep this manual in a safe place for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE) such as safety glasses and hearing protection when operating the compressor.
- Ensure the compressor is placed on a stable, level surface to prevent tipping.
- Do not operate the compressor in wet or damp conditions, or in the presence of flammable liquids or gases.
- Never direct compressed air at yourself or others.
- Before performing any maintenance or adjustments, always disconnect the compressor from the power supply and ensure the air tank is fully depressurized.
- Do not modify the compressor or its safety devices.
- Regularly inspect the power cord for damage. Do not use if damaged.
- Ensure adequate ventilation around the compressor during operation.

3. PRODUCT OVERVIEW

The ABAC OS20P is a silent, oil-free air compressor designed for various applications requiring compressed air. It features a 24-liter tank and a 2 HP motor, providing efficient and quiet operation.



Figure 1: Front view of the ABAC OS20P Silent Air Compressor. This image shows the blue 24-liter air tank, the black motor housing on top, the control panel with pressure gauges, and the wheels for portability.



Figure 2: Rear view of the ABAC OS20P Silent Air Compressor. This image highlights the back of the motor unit, the handle, and safety warning labels affixed to the air tank.

Key Components:

- **Air Tank:** Stores compressed air (24 Liters capacity).
- **Motor/Pump Assembly:** Generates compressed air (2 HP).
- **Pressure Switch:** Automatically starts and stops the motor to maintain tank pressure.
- **Pressure Gauges:** Display tank pressure and regulated outlet pressure.
- **Pressure Regulator:** Allows adjustment of the outlet air pressure.
- **Quick Connect Coupler:** For attaching air hoses and tools.
- **Drain Valve:** Located at the bottom of the tank for draining condensate.
- **Wheels and Handle:** For easy portability.

4. SETUP

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage. Report any damage to your supplier immediately.
2. **Placement:** Position the compressor on a firm, level surface in a clean, well-ventilated area. Ensure

there is sufficient space around the unit for air circulation.

3. **Electrical Connection:** Connect the compressor to a grounded 230 Volt electrical outlet. Ensure the electrical circuit can handle the compressor's power requirements (2 HP motor). Do not use extension cords unless absolutely necessary, and if used, ensure it is a heavy-duty, grounded cord suitable for the compressor's power rating.
4. **Initial Check:** Before first use, ensure the drain valve at the bottom of the tank is closed.

5. OPERATING INSTRUCTIONS

1. **Starting the Compressor:** Plug the compressor into a suitable electrical outlet. Turn the power switch to the 'ON' position. The compressor will start to build pressure in the tank. It will automatically stop when the maximum pressure is reached.
2. **Adjusting Outlet Pressure:** The compressor has two gauges: one for tank pressure and one for regulated outlet pressure. To adjust the outlet pressure, turn the pressure regulator knob (usually located near the outlet gauge) clockwise to increase pressure and counter-clockwise to decrease pressure.
3. **Connecting Air Tools:** Attach your air hose to the quick connect coupler. Then, connect your air tool to the other end of the hose. Ensure all connections are secure.
4. **Using the Compressor:** Operate your air tool as required. The compressor will cycle on and off automatically to maintain the set pressure in the tank.
5. **Stopping the Compressor:** When finished, turn the power switch to the 'OFF' position. Disconnect the air tool and hose.
6. **Depressurizing the Tank:** For safety and to prolong tank life, it is recommended to drain the air from the tank after each use. You can do this by opening the drain valve or by running an air tool until the tank pressure drops to zero.

6. MAINTENANCE

WARNING: Always disconnect the power supply and depressurize the tank before performing any maintenance.

- **Daily: Drain Condensate:** Open the drain valve at the bottom of the air tank to release any accumulated moisture. This prevents rust and corrosion inside the tank. Close the valve tightly after draining.
- **Weekly/Monthly: Clean Air Filter:** The air filter prevents dust and debris from entering the pump. Remove the filter cover and clean the filter element with compressed air or replace it if heavily soiled. A clogged filter reduces compressor efficiency.
- **Regularly: Inspect for Leaks:** Check all connections, hoses, and fittings for air leaks. Leaks reduce efficiency and can cause the compressor to run more frequently. Use soapy water to detect small leaks.
- **Periodically: General Cleaning:** Keep the compressor clean and free of dust and debris, especially around the motor and cooling fins, to ensure proper heat dissipation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Compressor does not start.	No power supply; Thermal overload activated; Faulty switch.	Check power connection and outlet; Allow compressor to cool down and reset; Contact service.
Compressor runs continuously or cycles too frequently.	Air leak in system; Clogged air filter; Pressure switch malfunction.	Check for and repair air leaks; Clean or replace air filter; Contact service.
Low air pressure at outlet.	Regulator set too low; Air leak; Clogged air filter.	Adjust pressure regulator; Check for and repair air leaks; Clean or replace air filter.
Excessive noise or vibration.	Loose components; Worn pump parts.	Check and tighten all fasteners; Contact service for inspection.

8. SPECIFICATIONS

Brand: ABAC

Model Name: POLE POSITION OS20P

Model Number: OS20P

Voltage: 230 Volt

Power Source: Electric with cord

Motor Horsepower: 2 HP

Capacity: 24 Liters

Special Features: Silent operation

Included Components: Electrical cable

Item Weight: 24 Kilogram

Manufacturer: ABAC

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact your point of purchase. For technical support, spare parts, or service, please contact ABAC customer service or an authorized ABAC service center. Keep your purchase receipt as proof of purchase for warranty claims. You can typically find contact information on the manufacturer's official website or through your retailer.