

EXCELL SAC22HPE

EXCELL SAC22HPE 2 Gallon Ultra Quiet Air Compressor User Manual

Model: SAC22HPE

1. INTRODUCTION

Thank you for choosing the EXCELL SAC22HPE 2 Gallon Ultra Quiet Air Compressor. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new air compressor. Please read this manual thoroughly before operating the unit and retain it for future reference.

The EXCELL SAC22HPE is designed for a less noisy work environment, operating at a low sound level of 61 dBA. Its oil-free, maintenance-free dual pump design ensures efficient operation and extended life. This compressor is suitable for various tasks, including finish and trim work, hobbies, and crafts. It features a compact roll cage design for easy transport and protection, a conveniently located control panel, and proprietary cold weather start capability.

2. SAFETY INFORMATION

Always observe basic safety precautions when using electrical products to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury or property damage.

General Safety Warnings:

- **Read All Instructions:** Familiarize yourself with the compressor's controls and proper use.
- **Electrical Safety:** Ensure the power source matches the compressor's voltage requirements. Do not operate in wet conditions. Use only approved extension cords (16 gauge, 275 ft. maximum).
- **Personal Safety:** Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- **Operating Environment:** Operate the compressor in a well-ventilated area. Keep children and bystanders away. Do not operate near flammable liquids or gases.
- **Pressure Safety:** Never exceed the maximum operating pressure of any air tool or accessory. Do not attempt to modify or repair the pressure relief valve.
- **Maintenance:** Disconnect power before performing any maintenance or adjustments. Regularly drain moisture from the air tank.

- **Transportation:** Use the designated handle for transport. Ensure the unit is stable during operation.

3. PACKAGE CONTENTS

Upon unpacking, verify that all items are present and undamaged:

- EXCELL SAC22HPE 2 Gallon Ultra Quiet Air Compressor Unit
- User Manual (this document)

If any parts are missing or damaged, contact EXCELL customer support immediately.

4. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your air compressor:



Figure 4.1: Front view of the EXCELL SAC22HPE Air Compressor, showing the control panel, tank, and roll cage handle.



Figure 4.2: Detailed view of the control panel, featuring the tank gauge, tool pressure gauge, pressure regulator knob, and quick connect coupler.



Figure 4.3: Side view illustrating the dual pump and motor assembly, which contributes to the unit's quiet operation and extended life.



Figure 4.4: Overall dimensions of the EXCELL SAC22HPE Air Compressor, useful for planning storage and workspace.

- **Control Panel:** Centralized location for gauges, regulator, and quick connect.
- **Tank Gauge:** Displays the pressure inside the air tank.
- **Tool Pressure Gauge:** Displays the regulated air pressure supplied to the tool.
- **Pressure Regulator:** Knob to adjust the output air pressure.
- **Quick Connect Coupler:** For attaching air hoses and tools.
- **Roll Cage Handle:** Provides protection and a convenient grip for transportation.
- **Air Tank:** 2-gallon capacity for compressed air storage.
- **Drain Valve:** Located at the bottom of the tank for moisture removal.

5. SETUP

Follow these steps for initial setup:

1. **Unpacking:** Remove the compressor from its packaging. Inspect for any shipping damage.
2. **Placement:** Place the compressor on a firm, level surface in a clean, well-ventilated area. Ensure there is adequate space around the unit for air circulation.
3. **Power Connection:** Ensure the power switch is in the OFF position. Connect the power cord to a grounded electrical outlet that meets the voltage requirements (90 Volts). The compressor is designed to operate on a 16 gauge, 275 ft. extension cord if needed.
4. **Initial Break-in (First Use):**
 - Open the drain valve at the bottom of the air tank.
 - Turn the pressure regulator knob counter-clockwise to the lowest setting.

- Turn the compressor ON. Allow it to run for 15-20 minutes with the drain valve open. This helps to break in the motor and pump components.
- After the break-in period, turn the compressor OFF, close the drain valve, and allow the unit to cool.

6. OPERATING INSTRUCTIONS

Operating your EXCELL SAC22HPE Air Compressor:

1. Prepare for Operation:

- Ensure the drain valve is closed.
- Connect your air hose to the quick connect coupler.
- Connect your air tool to the other end of the hose.

2. **Start the Compressor:** Turn the power switch to the ON position. The compressor will run until the tank reaches its maximum pressure (125 PSI), then it will shut off automatically. It will restart when the tank pressure drops.

3. **Adjust Output Pressure:** Turn the pressure regulator knob clockwise to increase the output pressure to your tool, or counter-clockwise to decrease it. Monitor the tool pressure gauge to set the desired PSI for your application.

4. **Using Air Tools:** Operate your air tool according to its specific instructions.

5. Shutting Down:

- Turn the power switch to the OFF position.
- Disconnect the air hose and tool.
- Slowly open the drain valve to release any remaining air pressure from the tank.
- Once all air is released, close the drain valve.

7. MAINTENANCE

The EXCELL SAC22HPE features an oil-free pump, significantly reducing maintenance requirements. However, regular checks are still necessary to ensure optimal performance and longevity.

Daily Maintenance:

- **Drain Air Tank:** After each use, or at the end of each workday, drain moisture from the air tank by opening the drain valve. This prevents rust and corrosion inside the tank.

Weekly/Monthly Maintenance:

- **Clean Exterior:** Wipe down the compressor's exterior with a damp cloth to remove dust and debris.
- **Inspect Air Filter:** Check the air intake filter for excessive dirt or blockage. Clean or replace if necessary to ensure proper airflow.
- **Check for Leaks:** Listen for any air leaks around fittings and connections. Tighten as needed.
- **Inspect Power Cord:** Examine the power cord for any cuts, fraying, or damage. Replace if damaged.

Note: This compressor is equipped with an oil-free pump and does not require oil changes or lubrication of the pump mechanism.

8. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Compressor does not start	No power supply Power switch OFF Thermal overload activated	Check power connection and outlet Turn power switch ON Allow compressor to cool down, then reset
Low air pressure at tool	Regulator set too low Air leaks in hose/fittings Air tool requires more CFM than compressor provides	Adjust regulator clockwise Check and tighten connections, replace damaged hose Ensure tool CFM requirements are within compressor's capacity
Compressor runs continuously or too frequently	Air leaks in tank or connections Heavy air demand from tool	Check for leaks with soapy water, tighten or repair Use tools with lower CFM requirements or allow compressor to catch up
Excessive noise or vibration	Loose components Unit not on a level surface	Check and tighten all fasteners Place on a stable, level surface
Moisture in air line	Tank not drained regularly	Drain tank after each use. Consider an in-line air dryer for sensitive applications.

If you encounter problems not listed here or if solutions do not resolve the issue, contact EXCELL customer support.

9. SPECIFICATIONS

Technical specifications for the EXCELL SAC22HPE Air Compressor:

Specification	Value
Model Number	SAC22HPE
Brand	EXCELL
Tank Capacity	2 Gallons
Maximum Pressure	125 PSI
Noise Level	61 dBA
Power Source	Corded Electric
Voltage	90 Volts
Motor Horsepower	1.0 HP
SCFM @ 90 PSI	2.0 SCFM
Material	Metal

Specification	Value
Weight	18.14 kg (40 lbs)
Dimensions (L x W x H)	48.01 x 45.21 x 37.59 cm (18.9 x 17.8 x 14.8 inches)
Special Features	Heavy Duty, Silent Operation, Cold Weather Start (down to 14°F / -10°C)

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official EXCELL website. Keep your purchase receipt as proof of purchase for any warranty claims.

If you require technical assistance or have questions regarding the operation or maintenance of your EXCELL SAC22HPE Air Compressor, please contact EXCELL customer service.