

Ingersoll Rand 2545K10-P

Ingersoll Rand 2545K10-P Electric Stationary Air Compressor User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Ingersoll Rand 2545K10-P Electric Stationary Air Compressor. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and to prevent personal injury or equipment damage.

2. SAFETY INFORMATION

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

- Always disconnect power before performing any maintenance or service.
- Ensure the compressor is installed in a well-ventilated area to prevent overheating.
- Do not operate the compressor if any parts are damaged or missing.
- Wear appropriate personal protective equipment (PPE) such as eye protection and hearing protection.
- Never direct compressed air at yourself or others.
- Ensure all electrical connections comply with local codes and are properly grounded. The unit requires 230 Volts.
- Regularly inspect the pressure relief valve and tank for signs of corrosion or damage.

3. PRODUCT OVERVIEW

The Ingersoll Rand 2545K10-P is a Type-30 electric-driven, two-stage stationary air compressor designed for heavy shop or industrial use. It delivers reliable performance for various applications including automotive service, fleet maintenance, machine shops, and manufacturing lines. This premium package includes a low oil level switch, an aftercooler, and an automatic tank drain for enhanced functionality and longevity.



Figure 1: Ingersoll Rand 2545K10-P Electric Stationary Air Compressor. This image displays the full compressor unit, highlighting the motor, pump assembly, control panel, and the large vertical air receiver tank with the Ingersoll Rand logo.

4. SETUP

1. **Unpacking and Inspection:** Carefully remove the compressor from its packaging. Inspect for any shipping damage. Report any damage immediately to the carrier and supplier.
2. **Location:** Place the compressor on a level, stable surface capable of supporting its weight (approximately 1104 pounds). Ensure adequate clearance around the unit for ventilation and maintenance access. Avoid areas with excessive dust or moisture.
3. **Electrical Connection:** This compressor requires a 230 Volt, corded electric power source. A qualified electrician must perform all electrical wiring to ensure compliance with local electrical codes and proper grounding. Verify the power supply matches the compressor's requirements before connection.
4. **Initial Checks:** Before first use, check the oil level in the pump. The compressor is typically shipped with oil, but verification is crucial. Refer to the oil sight glass or dipstick.

5. OPERATING INSTRUCTIONS

1. **Starting the Compressor:** Ensure all connections are secure and the power supply is connected. Turn the main power switch to the 'ON' position. The compressor will start automatically when the tank pressure drops below the cut-in pressure setting.
2. **Monitoring Operation:** Observe the pressure gauge to monitor tank pressure. The compressor is designed to automatically shut off when the maximum pressure (175 PSI) is reached and restart when pressure drops.
3. **Automatic Shut-Off:** The compressor features an automatic shut-off mechanism to prevent over-pressurization and to conserve energy.
4. **Shutting Down:** To turn off the compressor, switch the main power switch to the 'OFF' position. It is recommended to drain any accumulated moisture from the air tank after each use or at least daily.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your air compressor.

- **Daily:** Drain moisture from the air receiver tank using the automatic tank drain or manual valve. Check the oil level.
- **Weekly/Monthly:** Inspect air filters, belts, and hoses for wear or damage. Clean or replace air filters as needed.
- **Quarterly/Annually:** Change compressor oil. Inspect the pressure relief valve. Check all fasteners for tightness.

For comprehensive maintenance, consider using the [Maintenance Kit: 15920081](#).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Compressor does not start	No power, tripped breaker, low oil level switch activated	Check power supply, reset breaker, check and add oil if necessary
Low air pressure	Air leak, clogged air filter, worn piston rings	Locate and fix leaks, clean/replace air filter, consult service technician
Excessive noise or vibration	Loose components, worn bearings, improper installation	Tighten fasteners, consult service technician for internal issues

Problem	Possible Cause	Solution
Compressor runs continuously	Pressure switch malfunction, air leak	Inspect pressure switch, check for air leaks

For issues not listed or if solutions do not resolve the problem, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Ingersoll Rand
Model Name	2545K10-P
Item Model Number	45465978
Voltage	230 Volts
Power Source	Corded Electric
Maximum Power	10 Horsepower
Motor Horsepower	10 Horsepower
Air Flow Capacity	35 Cubic Feet Per Minute (CFM)
Maximum Pressure	175 PSI
Item Weight	1104 Pounds
Package Dimensions	82 x 44 x 32 inches
Recommended Uses	Industrial
Special Features	Automatic Shut-Off, Aftercooler, Automatic Tank Drain, Low Oil Level Switch
Included Components	Air Compressor
UPC	400545000204, 678384659789
Part Number	958892
Date First Available	February 1, 2007

9. WARRANTY INFORMATION

The standard warranty on the reciprocating pump is 1 year. This warranty can be extended to 2 years with the use of the [2yr Warranty Start Up kit \(#6131992\)](#), which is sold separately. For detailed warranty terms and conditions, please refer to the documentation provided with your purchase or contact Ingersoll Rand customer support. Optional protection plans are available for purchase, including 3-Year and 4-Year plans, offering extended coverage beyond the manufacturer's warranty.

10. SUPPORT & CONTACT

If you require technical assistance, have questions regarding operation or maintenance, or need to order replacement parts, please contact Ingersoll Rand customer support. Ensure you have your model number (2545K10-P) and serial number ready when contacting support.

For additional resources and product information, visit the official Ingersoll Rand website.