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> Ingersoll Rand RS22i-A125-208 Rotary Screw Air Compressor User Manual

## Ingersoll Rand 47660186001

# Ingersoll Rand RS22i-A125-208 Rotary Screw Air Compressor User Manual

Model: 47660186001

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Ingersoll Rand RS22i-A125-208 Rotary Screw Air Compressor. Please read this manual thoroughly before operating the equipment. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of your compressor.



Figure 1: Ingersoll Rand RS22i-A125-208 Rotary Screw Air Compressor. This image shows the overall design of the compressor unit, including the main housing and the horizontal air tank.

## 2. SAFETY INFORMATION

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Operating this industrial equipment requires strict adherence to safety protocols to prevent injury or damage. Always follow local safety regulations and guidelines.

- **Electrical Safety:** Ensure the compressor is properly grounded. Disconnect power before performing any maintenance or service. The unit operates on 208V AC, 3-phase power.
- **Pressure Safety:** Never exceed the maximum operating pressure of 125 psi. Regularly inspect hoses, fittings, and the air tank for damage.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent heat buildup and ensure proper air intake.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including eye protection, hearing protection, and safety footwear, when operating or servicing the compressor.
- **Hot Surfaces:** Be aware that certain parts of the compressor can become hot during operation. Allow the unit to cool before

touching.

- **Moving Parts:** Keep hands, hair, and clothing clear of all moving parts during operation.

## 3. SETUP AND INSTALLATION

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Proper installation is crucial for the performance and safety of your air compressor.

### 3.1 Unpacking and Inspection

Carefully remove the compressor from its packaging. Inspect the unit for any signs of shipping damage. Report any damage to your supplier immediately.

### 3.2 Location Requirements

- Install the compressor on a level, solid surface capable of supporting its weight (approximately 1549 lbs).
- Ensure adequate clearance around the unit for ventilation and maintenance access.
- The operating environment should be clean, dry, and well-ventilated, with ambient temperatures between 40°F (4°C) and 104°F (40°C).

### 3.3 Electrical Connection

This compressor requires a 208V AC, 3-phase electrical supply with a full load amperage of 112.0A. All electrical work must be performed by a qualified electrician in accordance with local and national electrical codes.

- Connect the compressor to a dedicated circuit with appropriate overcurrent protection.
- Verify correct phase rotation before initial startup.

### 3.4 Air Line Connection

Connect your air system to the 1-inch (F)NPT outlet. Ensure all connections are secure and leak-free.



Figure 2: Front view of the compressor, highlighting the control panel and air outlet connection point.

## 4. OPERATING INSTRUCTIONS

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Familiarize yourself with the control panel and emergency stop button before starting the compressor.

### 4.1 Pre-Start Checklist

- Verify all electrical and air connections are secure.
- Check the oil level in the compressor.
- Ensure the emergency stop button is disengaged.
- Confirm the area around the compressor is clear.

### 4.2 Starting the Compressor

1. Turn on the main power supply to the compressor.
2. Press the START button on the control panel. The compressor will begin its startup sequence.

3. Monitor the pressure gauge to ensure the compressor builds pressure correctly up to 125 psi.

## 4.3 Stopping the Compressor

- Press the STOP button on the control panel for a normal shutdown.
- In an emergency, press the red EMERGENCY STOP button. This will immediately cut power to the unit.
- After stopping, ensure the main power supply is turned off if the compressor will not be used for an extended period.

## 5. MAINTENANCE

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Regular maintenance is essential for the longevity and efficient operation of your Ingersoll Rand compressor.

### 5.1 Daily Checks

- Check the oil level and add if necessary.
- Drain condensate from the air tank.
- Inspect for any unusual noises or vibrations.
- Check for air or oil leaks.

### 5.2 Weekly Checks

- Clean the air intake filter. Replace if heavily soiled.
- Inspect drive belts for tension and wear (if applicable).

### 5.3 Scheduled Maintenance

Refer to the detailed maintenance schedule in the full product manual for specific intervals for:

- Oil changes and oil filter replacement.
- Air filter replacement.
- Separator element replacement.
- Motor bearing lubrication.



Figure 3: Side view of the compressor, showing access panels for maintenance and internal components.

## 6. TROUBLESHOOTING

This section provides solutions to common operational issues. For complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Compressor does not start	No power supply; Emergency stop engaged; Motor overload.	Check main power; Disengage emergency stop; Reset motor overload.
Low air pressure	Air leak; Clogged air filter; Worn compressor components.	Inspect for leaks and repair; Clean/replace air filter; Contact service for component inspection.
Excessive noise/vibration	Loose components; Worn bearings; Improper installation.	Tighten loose parts; Contact service for bearing replacement; Verify installation.

Problem	Possible Cause	Solution
Overheating	Poor ventilation; Low oil level; Clogged cooler.	Ensure adequate airflow; Check/add oil; Clean cooler fins.

## 7. SPECIFICATIONS

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Key technical specifications for the Ingersoll Rand RS22i-A125-208 Rotary Screw Air Compressor.

**Model:** 47660186001

**Type:** Rotary Screw Air Compressor

**Horsepower (HP):** 30.0 hp

**Input Voltage:** 208V AC

**Phase:** 3-Phase

**Full Load Amps:** 112.0 A

**Free Air CFM @ Max. Pressure:** 124 CFM

**Max. Pressure:** 125 psi

**Tank Size:** 120 gallons

**Tank Style:** Horizontal

**(F)NPT Outlet:** 1 inch

**Air Dryer Included:** No

**Product Dimensions:** 78.6 x 75.4 x 31.5 inches

**Weight:** 1549 Pounds

**Power Source:** Corded Electric

**Recommended Uses:** Drilling, Bolting, Grinding, Cutting, Sanding

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact Ingersoll Rand customer service. Keep your purchase receipt and model number (47660186001) readily available when contacting support.

**Manufacturer:** INGERSOLL RAND

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For further assistance, you may visit the official [Ingersoll Rand Store on Amazon](#).