Ingersoll Rand UP6-10TAS-125/120-230-3-60

Ingersoll Rand Rotary Screw Air Compressor

Model: UP6-10TAS-125/120-230-3-60

10 HP, 125 PSI

Introduction and Safety Information

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your Ingersoll Rand Rotary Screw Air Compressor, Model UP6-10TAS-125/120-230-3-60. Read this manual thoroughly before operating the compressor. Failure to follow these instructions can result in serious injury or property damage.

General Safety Warnings

- **Electrical Safety:** Ensure the compressor is properly grounded. Disconnect power before performing any maintenance or service.
- **Pressure Safety:** Never exceed the maximum operating pressure of 125 PSI. Do not tamper with safety valves.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating and accumulation of hazardous fumes.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including eye protection and hearing protection, when operating or servicing the compressor.
- **Hot Surfaces:** Compressor components can become hot during operation. Avoid contact with hot surfaces to prevent burns.
- **Moving Parts:** Keep hands, hair, and clothing clear of moving parts.

Setup

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

Unpacking and Inspection

Carefully remove the compressor from its packaging. Inspect for any shipping damage. Report any damage to the carrier immediately.

Location Requirements

- **Ventilation:** Install in a clean, dry, and well-ventilated area. Ensure adequate clearance around the unit for airflow and maintenance access.
- **Level Surface:** The compressor must be placed on a firm, level surface capable of supporting its weight (approximately 1000 pounds).
- **Temperature:** Operate within an ambient temperature range of 40°F (4°C) to 104°F (40°C).

Electrical Connection

This compressor requires a 230-volt, 3-phase electrical supply. All electrical wiring must be performed by a qualified electrician in accordance with local and national electrical codes.

- Ensure the power supply matches the compressor's voltage and phase requirements.
- Install a dedicated circuit breaker of appropriate amperage.
- Verify proper grounding to prevent electrical shock.

Air Line Connection

Connect the compressor to your air distribution system using appropriate piping and fittings. Ensure all connections are leak-free and rated for the compressor's maximum operating pressure.



Figure 1: Front view of the Ingersoll Rand Rotary Screw Air Compressor. This image shows the overall compact design and control panel location, essential for understanding initial setup and operational access.

Operating Instructions

Follow these steps for safe and effective operation of your compressor.

Pre-Start Checklist

- Verify all electrical connections are secure.
- Check the oil level in the compressor.
- Ensure all air lines are properly connected and valves are in the correct position.
- Confirm the condensate drain valve is closed.

Starting the Compressor

1. Turn on the main power supply to the compressor.
2. Press the "START" button on the control panel.

3. Allow the compressor to build pressure. Monitor the pressure gauge to ensure it reaches the desired operating pressure (125 PSI).
4. Listen for any unusual noises or vibrations. If detected, shut down the compressor immediately and investigate.

Shutting Down the Compressor

1. Press the "STOP" button on the control panel.
2. Turn off the main power supply to the compressor.
3. Drain any accumulated condensate from the air receiver tank by opening the drain valve. Close the valve after draining.

Maintenance

Regular maintenance is essential for optimal performance and extended service life of your compressor.

Daily Checks

- **Condensate Drain:** Drain the air receiver tank daily to remove moisture.
- **Oil Level:** Check the compressor oil level. Add oil if necessary, using only recommended Ingersoll Rand lubricants.
- **Visual Inspection:** Inspect for any leaks, loose connections, or unusual wear.

Scheduled Maintenance

- **Air Filter:** Inspect and clean the air filter regularly. Replace as needed, typically every 500-1000 operating hours or annually.
- **Oil Change:** Change the compressor oil and oil filter according to the manufacturer's schedule, typically every 2000 operating hours or annually.
- **Separator Element:** Replace the air/oil separator element as recommended by Ingersoll Rand.
- **Belt Tension:** Check and adjust belt tension if applicable (some rotary screws are direct drive, but general maintenance includes this).



Figure 2: Angled view of the Ingersoll Rand Rotary Screw Air Compressor, highlighting areas where maintenance checks for filters and fluid levels are typically performed.

Troubleshooting

This section provides solutions to common operational issues. For problems not listed here, contact authorized service personnel.

Problem	Possible Cause	Solution
Compressor does not start	No power supply; tripped circuit breaker; emergency stop engaged.	Check power connection; reset circuit breaker; disengage emergency stop.
Low air pressure	Air leak in system; clogged air filter; worn compressor components.	Check for and repair leaks; clean or replace air filter; contact service for component inspection.
Excessive noise or vibration	Loose components; worn bearings; improper installation.	Inspect and tighten loose parts; contact service for bearing replacement or installation check.

Problem	Possible Cause	Solution
Compressor overheats	Poor ventilation; clogged cooler fins; low oil level.	Ensure adequate ventilation; clean cooler fins; check and add oil.

Specifications

Key technical specifications for the Ingersoll Rand Rotary Screw Air Compressor, Model UP6-10TAS-125/120-230-3-60.

- **Brand:** Ingersoll Rand
- **Model Number:** UP6-10TAS-125/120-230-3-60
- **Maximum Power:** 10 HP
- **Maximum Operating Pressure:** 125 PSI
- **Air Flow Capacity:** 38 CFM
- **Tank Volume:** 80 Gallons
- **Voltage:** 230 Volts
- **Power Source:** Corded Electric (3-Phase)
- **Item Weight:** Approximately 1000 pounds
- **Dimensions (Approximate):** Refer to product documentation for exact dimensions.

Warranty and Support

For warranty information, technical support, or to locate an authorized service center, please contact Ingersoll Rand directly or visit their official website.
Ingersoll Rand Official Website: Visit the Ingersoll Rand Store on Amazon
Always provide your model number (UP6-10TAS-125/120-230-3-60) and serial number when contacting support for efficient assistance.

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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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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question