GENERAL

atlas copco xas 96 manual

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Introduction

Atlas Copco's XAS 96 is a high performance air compressor that delivers reliable, efficient, and low noise operation for a wide range of industrial and commercial applications. Whether you're a seasoned maintenance professional or a new operator looking for guidance, having a clear, detailed **Atlas Copco XAS 96 manual** is essential. This guide covers every aspect of the XAS 96, from initial setup and operation to routine maintenance and troubleshooting, helping you keep your unit running at peak performance for years to come.

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1. Overview of the Atlas Copco XAS 96

The Atlas Copco XAS 96 is part of the XAS series of air compressors, known for their robust construction and quiet operation. Designed for continuous duty, the XAS 96 provides a steady flow of compressed air with minimal vibration, making it ideal for workshops, manufacturing plants, and automotive service centers.

Key attributes include:

- High Capacity: Up to 96 /L/min at 0.7 /bar (10 /PSI)
- Low noise levels—typically around 60 /dB(A)
- Durable cast iron housing and stainless steel components
- Integrated automatic shut off and pressure relief systems
- Easy-to-use control panel with clear indicators

Understanding these features will help you appreciate why the XAS 96 is a popular choice among professionals who demand reliability and efficiency.

2. Technical Specifications

Below is a concise summary of the most important technical details. Refer to the full **Atlas Copco XAS 96 manual** for comprehensive data, including electrical ratings, dimensions, and weight.

2.1. General Information

- Model: XAS 96
- Series: XAS
- Manufacturer: Atlas Copco

- Application: Industrial air compression

2.2. Performance Parameters

- Nominal Pressure: 0.7 /bar (10 /PSI)
- Maximum Pressure: 2.2 /bar (32 /PSI)
- Air Flow Rate: 96 /L/min (3.4 /CFM)
- Power Consumption: 0.8 /kW (1.1 /HP)
- Operating Temperature Range: -10 /°C to 45 /°C

2.3. Mechanical and Electrical Details

- Motor: 0.8 /kW, 50 /Hz, 400 /V, 3 phase
- Dimensions: 350 /mm (H) × 280 /mm (W) × 260 /mm (D)
- Weight: 45 /kg
- Connection: 3/4 inch NPT outlet
- Pressure Relief Valve: 2.5 /bar (36 /PSI)

3. Installation Guide

Proper installation is critical for safety, performance, and longevity. Follow these steps carefully to set up your XAS 96 correctly.

3.1. Pre Installation Checklist

1. Read the entire Atlas Copco XAS 96 manual before starting.
2. Verify that the unit is on a stable, level surface.
3. Ensure adequate clearance for ventilation—at least 600 /mm on all sides.
4. Confirm that the electrical supply matches the motor rating (400 /V, 3 phase).
5. Inspect the compressor for any shipping damage.

3.2. Mounting and Positioning

- Place the unit on a concrete or steel foundation to reduce vibration.
- Secure the compressor with mounting bolts and anti vibration pads.
- Check that the unit is level using a spirit level.

3.3. Electrical Connections

1. Turn off the main power supply before connecting.
2. Use a 3 phase, 400 /V, 0.8 /kW power supply.
3. Connect the power cables to the motor terminals, following the color code in the wiring diagram.
4. Install a circuit breaker rated at 1.5 /kA for protection.
5. Verify all connections with a multimeter before energizing.

3.4. Air Connections

- Attach the inlet and outlet hoses using 3/4 inch NPT fittings.
- Use anti vibration clamps to secure the hoses.
- Check for leaks with a soap solution test.
- Install a pressure gauge on the outlet for monitoring.

3.5. Initial Startup

1. Open all safety valves and check the oil level.
2. Close the inlet valve and start the compressor.
3. Observe the pressure gauge; it should rise to the set point (0.7 /bar).

4. Listen for unusual noises and check for vibrations.
5. Once the unit stabilizes, perform a pressure test by connecting a load.

4. Operation Instructions

Operating the Atlas Copco XAS 96 is straightforward, thanks to its intuitive control panel and robust design. Below is a step by step guide to ensure efficient and safe operation.

4.1. Starting the Compressor

1. Confirm the unit is properly mounted and all connections are secure.
2. Ensure the inlet valve is open and the outlet valve is closed.
3. Press the Start button on the control panel.
4. Watch the Pressure indicator rise to the set point.
5. When the Pressure indicator reaches 0.7 /bar, the compressor will automatically shut off.

4.2. Monitoring During Operation

- Keep an eye on the Temperature gauge; it should stay below 80 /°C.
- Check the Pressure gauge regularly to ensure it stays within the 0.6–0.8 /bar range.
- Listen for any abnormal sounds such as knocking or excessive rattling.
- Use the built in Alarm indicators to detect low oil, high temperature, or high pressure conditions.

4.3. Shut Down Procedure

1. Close the outlet valve to stop the air flow.
2. Press the Stop button on the control panel.
3. Allow the compressor to cool for at least 30 /minutes before performing maintenance.
4. Check the oil level and add oil if necessary.

5. Maintenance & Troubleshooting

Regular maintenance keeps the XAS 96 operating at peak efficiency. The following sections outline routine checks and common problems you might encounter.

5.1. Routine Maintenance Schedule

1. Daily: Inspect for oil leaks, check pressure gauge accuracy, ensure no loose fittings.
2. Weekly: Clean air intake filters, verify coolant levels, test safety valves.
3. Monthly: Inspect belts and bearings, replace worn components.
4. Quarterly: Conduct a full oil change, check electrical connections, update firmware if applicable.
5. Annually: Perform a comprehensive inspection, replace all consumables, and certify compliance with safety standards.

5.2. Common Issues and Fixes

- Low Pressure: Check for clogged air filters, inspect inlet valves, ensure correct oil level.
- Overheating: Verify proper ventilation, clean cooling fins, check oil quality.
- Unusual Noise: Inspect bearings, check for loose bolts, examine the motor for misalignment.
- Oil Leaks: Tighten gasket fittings, replace worn seals.
- Pressure Relief Valve Activation: Inspect for blockage, check pressure settings, replace valve if necessary.

5.3. Troubleshooting Flowchart

1. Is the compressor not starting? Check power supply, circuit breaker, and motor connections.
2. Is the pressure gauge reading incorrectly? Calibrate the gauge or replace it.

3. Is the unit running hotter than normal? Verify ventilation and oil condition.
4. Do you hear excessive vibration? Inspect mounting and alignment.

6. Safety Guidelines

Safety is paramount when operating heavy machinery like the Atlas Copco XAS 96. Adhere to the following precautions to protect yourself and your colleagues.

6.1. Electrical Safety

- Always de energize the unit before performing any maintenance.
- Use insulated tools and wear personal protective equipment (PPE) such as gloves and safety glasses.
- Keep the area dry and free of conductive materials.

6.2. Mechanical Safety

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