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atlas copco compressor manual xas 36

Published: September 19, 2026 | Index ID: #-

Atlas Copco Compressor Manual XAS 36: The Ultimate Guide

When it comes to industrial air compression, the **Atlas Copco XAS 36** stands out as a reliable, high performance solution for a wide range of applications. Whether you're a maintenance engineer, a plant manager, or a hobbyist looking to dive deeper into compressor technology, having the right *Atlas Copco compressor manual XAS 36*at hand is essential. This guide covers everything from the machine's technical specifications to detailed operating instructions, maintenance tips, and troubleshooting advice. By the end, you'll have a comprehensive understanding of how to keep your XAS 36 running smoothly and safely.

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1. Overview of the Atlas Copco XAS 36

The Atlas Copco XAS 36 is part of the company's well regarded XAS series, known for its robust construction, energy efficiency, and quiet operation. Designed for continuous duty, the XAS 36 is ideal for applications such as metal forming, painting, welding, and general industrial use where a reliable, high capacity air supply is critical.

Key highlights:

- Maximum air flow: 36 cubic meters per minute (m3/min)
- Operating pressure: 6.5 bar (95 psi)
- Power: 20 kW (27 hp)
- Compact footprint with modular design
- Integrated filtration and oil free options available

Choosing the right compressor manual is crucial for proper setup, operation, and maintenance. The **Atlas Copco compressor manual XAS 36**provides step by step guidance, ensuring you get the most out of your investment while maintaining compliance with safety standards.

2. Technical Specifications

General Data

- Model: XAS 36
- Air Flow: 36 m3/min (at 6.5 bar)

- Power: 20 kW (27 hp) at 400 V, 50 Hz
- Operating Temperature: –10 /°C to +45 /°C
- Dimensions (WxDxH): 1,200 /mm × 1,200 /mm × 1,700 /mm
- Weight: 1,200 kg

Electrical Requirements

- Voltage: 400 V
- Frequency: 50 Hz
- Phase: 3 phase
- Current: 33 A
- Power Factor: 0.90

Performance Characteristics

- Compressor type: Reciprocating piston
- Displacement: 200 cm3 per stroke
- Stroke length: 300 mm
- Speed: 1,200 rpm
- Oil consumption: 0.5 L/h (oil free version available)

Environmental & Safety Features

- Noise level: 75 dB(A)
- Dust tight enclosure (IP 54)
- Built in pressure relief valve
- Automatic shut off at low oil pressure

3. Installation Guide

Proper installation is the foundation for optimal performance and longevity. The **Atlas Copco compressor manual XAS 36**outlines a clear, step by step process that covers site preparation, mounting, electrical connection, and initial commissioning.

3.1 Site Preparation

1. Clear the area: Ensure at least 1.5 meters of clearance on all sides for ventilation and maintenance access.
2. Flooring: Use a concrete slab with a minimum thickness of 10 cm, reinforced for the compressor’s weight.

The surface should be level to within ±3 mm.

3. Ventilation: Install a ventilation system to dissipate heat and prevent condensation buildup.

3.2 Mounting

- Use the provided mounting brackets and fasteners.
- Align the compressor so that the inlet and outlet ports face the correct direction.
- Secure the unit with bolts tightened to the manufacturer’s torque specifications.

3.3 Electrical Connection

1. Verify that the supply matches the compressor’s voltage, frequency, and phase requirements.
2. Use a dedicated circuit with a 40 A circuit breaker.
3. Connect the wiring following the diagram in the manual, ensuring proper grounding.
4. Check for correct polarity and verify all connections with a multimeter.

3.4 Air System Integration

- Attach the inlet filter and oil separator (if applicable).

- Connect the discharge pipe to the air handling system, ensuring a secure seal.
- Install pressure gauges and relief valves as specified.

3.5 Initial Commissioning

1. Check all connections for leaks.
2. Open the main valve and allow the compressor to fill with oil.
3. Start the compressor and monitor pressure buildup.
4. Verify that the pressure gauge reads 6.5 bar and that the oil pressure is within the safe range.
5. Perform a brief run through to ensure all systems are functioning.

4. Operating Instructions

The **Atlas Copco compressor manual XAS 36**offers clear guidance on daily operation. Following these instructions helps maintain efficiency and prolong the compressor's lifespan.

4.1 Normal Operation

- Start the compressor by turning the main switch to the ON position.
- Monitor the pressure gauge; the compressor should automatically shut off once it reaches 6.5 bar.
- Allow the compressor to rest for at least 5 minutes after each cycle to prevent overheating.

4.2 Operating in Oil Free Mode

For environments where oil contamination must be avoided, the XAS 36 can operate in oil free mode. This mode requires a high quality air filter and periodic inspection of the air path for any signs of contamination.

4.3 Load Management

To maximize efficiency:

- Use the compressor during periods of low ambient temperature.
- Schedule high load tasks during off peak electricity hours if possible.
- Keep the air system free of leaks to avoid unnecessary energy consumption.

5. Maintenance & Service

Regular maintenance is key to ensuring that your Atlas Copco XAS 36 remains reliable and efficient. The manual provides a maintenance schedule that balances performance with cost.

5.1 Daily Checks

1. Inspect for oil leaks around the piston and seals.
2. Verify that the pressure gauge and relief valves are functioning.
3. Check the inlet filter for blockage and replace if necessary.

5.2 Weekly Maintenance

- Clean the oil filter and replace if dirty.
- Inspect the air discharge line for cracks or wear.
- Check all bolts and fasteners for tightness.

5.3 Monthly Service

1. Lubricate moving parts according to the manufacturer's recommendations.
2. Replace the oil filter if it shows signs of contamination.
3. Inspect the compressor's electrical contacts for corrosion.

5.4 Annual Inspection

- Perform a full hydraulic system check.
- Verify that the pressure relief valve is calibrated correctly.
- Inspect the compressor's mounting structure for any signs of stress.

5.5 Service Records

Maintain a logbook documenting all maintenance activities. This not only helps with warranty claims but also provides valuable data for predictive maintenance.

6. Troubleshooting Common Issues

Even the best machines can encounter problems. The **Atlas Copco compressor manual XAS 36** includes a troubleshooting section that addresses the most frequent issues and their solutions.

6.1 Low Pressure Output

- Check for air leaks in the system.
- Inspect the inlet filter; a clogged filter can restrict airflow.
- Verify that the compressor's piston seals are intact.

6.2 Overheating

- Ensure adequate ventilation around the unit.
- Check oil levels; low oil can cause friction and heat buildup.
- Inspect the cooling fan and heat exchanger for obstructions.

6.3 Excessive Noise

- Check for loose components or fasteners.
- Inspect the piston and cylinder for wear.
- Verify that the compressor is level on the floor.

6.4 Oil Leakage

- Inspect seals and gaskets for damage.
- Check for over pressurization that could force oil out.
- Ensure that the oil filter is installed correctly.

7. Safety Precautions

Operating an industrial air compressor involves inherent risks. The **Atlas Copco compressor manual XAS 36** emphasizes several safety measures to protect both operators and equipment.

7.1 Personal Protective Equipment (PPE)

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