

MAKO AIRTEK 39863857

MAKO AIRTEK Air Oil Separator Instruction Manual

Model: 39863857

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the MAKO AIRTEK Air Oil Separator, Model 39863857. This component is designed for compatibility with Ingersoll Rand air compressor systems, ensuring efficient separation of oil from compressed air.

Please read this manual thoroughly before attempting any installation or maintenance procedures. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING:

- Always depressurize the air compressor system completely before performing any maintenance or installation.
- Disconnect power to the compressor before servicing.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the replacement part is compatible with your specific compressor model.
- Improper installation or maintenance can lead to equipment damage, personal injury, or system failure.

3. PRODUCT OVERVIEW

The MAKO AIRTEK Air Oil Separator (Model 39863857) is a critical component in screw-type air compressors, responsible for separating lubricating oil from the compressed air stream. This ensures that the air delivered to downstream equipment is clean and free of oil contaminants, protecting tools and processes.

Key Features:

- Constructed from high-quality raw materials for durability and performance.
- Designed to meet original manufacturing standards for direct replacement.
- Ensures 100% product compatibility and reliable operation.

- Contributes to reduced maintenance costs by extending compressor lifespan and preventing contamination.



Figure 3.1: MAKO AIRTEK Air Oil Separator, Model 39863857. This image shows the cylindrical filter element with a perforated metal outer casing and end caps, designed for efficient oil separation in air compressor systems.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the air oil separator. Refer to your compressor's specific service manual for detailed instructions, as procedures may vary.

Required Tools (Typical):

- Wrench set
- Oil drain pan
- Clean rags

- New gaskets/seals (if not included with separator)

Installation Steps:

1. **Preparation:** Ensure the air compressor is turned off, depressurized, and locked out according to safety procedures. Allow the system to cool if it has been recently operating.
2. **Drain Oil:** Locate the oil drain valve on the separator tank and drain all oil into a suitable container.
3. **Access Separator:** Open the separator tank cover or access panel. This may involve removing bolts or clamps.
4. **Remove Old Separator:** Carefully remove the old air oil separator element. Be prepared for residual oil.
5. **Clean Housing:** Clean the separator housing thoroughly, removing any debris or old gasket material. Inspect for damage.
6. **Install New Separator:** Insert the new MAKO AIRTEK Air Oil Separator (Model 39863857) into the housing, ensuring it is seated correctly. Replace any necessary gaskets or O-rings.
7. **Secure Housing:** Reattach the separator tank cover or access panel, tightening bolts to the manufacturer's specified torque.
8. **Refill Oil:** Refill the compressor with the recommended type and amount of compressor oil.
9. **Test System:** Start the compressor and check for leaks or abnormal operation. Monitor air quality.



Figure 4.1: A typical air oil separator element, similar to the 39863857 model, ready for installation. This image highlights the cylindrical design and perforated structure common to these components.

5. OPERATING INSTRUCTIONS

Once installed, the air oil separator operates automatically as part of the compressor system. No direct user interaction is typically required during normal operation. However, it is important to monitor the compressor's performance to ensure

the separator is functioning correctly.

Monitoring During Operation:

- **Air Quality:** Periodically check the quality of the compressed air for any signs of oil carryover. This can be done by observing downstream equipment or using air quality testing kits.
- **Pressure Drop:** A significant increase in pressure drop across the separator can indicate a clogged element, requiring replacement. Refer to your compressor's gauges.
- **Oil Level:** Ensure the compressor oil level is maintained within the recommended range.

6. MAINTENANCE

Regular maintenance of the air oil separator is essential to maintain air quality, protect downstream equipment, and ensure the longevity of your air compressor. The separator element is a consumable part and requires periodic replacement.

Maintenance Schedule:

- **Daily/Weekly:** Check for any visible oil leaks around the separator housing.
- **Monthly/Quarterly:** Monitor the pressure differential across the separator. An increasing differential indicates the element is becoming clogged.
- **Annually or as Indicated:** Replace the air oil separator element. The exact interval depends on compressor usage, operating conditions, and the manufacturer's recommendations. Always replace the element when the pressure differential exceeds the specified limit.

Replacement Procedure:

Follow the "Setup and Installation" steps in reverse for removal, and then proceed with the installation of the new element. Always use genuine or compatible replacement parts like the MAKO AIRTEK Model 39863857.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Oil carryover in compressed air	• Clogged separator element • Damaged separator element • Incorrect oil level (too high) • Wrong type of compressor oil • Damaged scavenge line	• Replace separator element (Model 39863857) • Inspect and replace if damaged • Adjust oil to correct level • Use recommended compressor oil • Inspect and clear/replace scavenge line
High pressure drop across separator	• Clogged separator element • Excessive particulate matter in system	• Replace separator element (Model 39863857) • Check and replace air filter, inspect system for contamination sources

Problem	Possible Cause	Solution
Short separator lifespan	• High operating temperature • Contaminated oil • Excessive moisture in system	• Check compressor cooling system • Change oil and oil filter regularly • Ensure proper air dryer function

8. SPECIFICATIONS

Attribute	Detail
Brand	MAKO AIRTEK
Model Number	39863857
Part Number	39863857
Compatibility	Ingersoll Rand (specific models may vary, refer to compressor manual)
Voltage (if applicable to system)	120 Volts (Note: This refers to the compressor system's voltage, not the passive separator element itself)
ASIN	B0CQ7PYWTY
Date First Available	December 14, 2023

9. WARRANTY INFORMATION

MAKO AIRTEK products are manufactured to high standards. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact MAKO AIRTEK customer support directly. Warranty coverage typically applies to manufacturing defects and does not cover normal wear and tear or damage due to improper installation or misuse.

10. CUSTOMER SUPPORT

Should you encounter any issues or require assistance with your MAKO AIRTEK Air Oil Separator, please do not hesitate to contact our customer support team.

Contact Information:

- **Email/Contact Form:** Please refer to the MAKO AIRTEK official website or your purchase platform for direct contact methods.
- **Response Time:** We aim to reply within 1 business day (excluding public holidays).

- **Work Hours:** Monday to Friday

For faster service, please have your product model number (39863857) and purchase details ready when contacting support.

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