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## Aircraft ÖWAMAT 10

# BEKO ÖWAMAT 10 Oil-Water Separator User Manual

Model: ÖWAMAT 10 | Brand: Aircraft

## 1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of the BEKO ÖWAMAT 10 Oil-Water Separator. The ÖWAMAT 10 is designed to reliably separate oil from compressed air condensate, ensuring environmentally responsible disposal and compliance with regulations. By treating condensate on-site, you can significantly reduce disposal costs and environmental impact.

## 2. SAFETY INFORMATION

Always read and understand all safety instructions before installing, operating, or maintaining the BEKO ÖWAMAT 10. Failure to follow these instructions may result in serious injury or damage to the equipment.

- Ensure the unit is installed by qualified personnel in accordance with local regulations and standards.
- Always disconnect the power supply to the compressor before performing any maintenance on the separator.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, when handling condensate or performing maintenance.
- Do not modify the unit in any way. Use only genuine replacement parts.
- Dispose of separated oil and used filter materials according to local environmental regulations. Condensate contains oil and must be handled as waste.

## 3. PRODUCT OVERVIEW

The BEKO ÖWAMAT 10 is a reliable oil-water separation system designed for efficient treatment of compressed air condensate.

### 3.1 Key Features

- **Conical Filter Intake:** Facilitates easier filter changes and prevents bypass formation.
- **Large Maintenance Opening:** Ensures simple and convenient operation and servicing.
- **Wall Mounting Capability:** Allows for flexible installation options.
- **Oleophilic Pre-filter:** Effectively captures free oil components.

- **Multiple Condensate Inlets:** Supports connection of several condensate lines.
- **Improved Filter Material:** Offers higher performance than conventional activated carbon filters.
- **Pressure Relief Chamber:** Reduces overpressure and directs condensate smoothly to the pre-filter.
- **Reliable System:** Features official construction approval from the Institute for Building Technology, Berlin.



Figure 1: The BEKO ÖWAMAT 10 Oil-Water Separator. This image shows the complete unit, highlighting its compact design and connection points.

## 4. SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance of your ÖWAMAT 10.

### 4.1 Mounting

1. Select a suitable location for installation, preferably near the condensate source.
2. The unit can be mounted on a wall. Ensure the mounting surface is stable and capable of supporting the unit's weight (approx. 3.67 kg, plus condensate).
3. Allow sufficient space around the unit for maintenance and filter changes.

## 4.2 Connections

1. Connect the condensate inlet lines to the two G 1/2" condensate inlets. The ÖWAMAT 10 supports multiple condensate supply lines.
2. Connect the water outlet line to the G 1/2" water outlet. Ensure this line leads to an appropriate drainage system in compliance with local regulations.
3. Ensure all connections are secure and leak-free.

## 5. OPERATING PRINCIPLE

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The BEKO ÖWAMAT 10 operates on a multi-stage separation principle to effectively remove oil from condensate.

1. **Pressure Relief:** Condensate from the compressor first enters a pressure relief chamber, where any overpressure is safely dissipated. This ensures the condensate flows smoothly without turbulence.
2. **Pre-separation (Oleophilic Coalescing Pre-filter):** The condensate then flows into an oleophilic coalescing pre-filter. This filter is designed to capture and separate free oil components from the water.
3. **Main Filtration:** After passing through the pre-filter, the condensate enters the main filter. This filter adsorbs any remaining hydrocarbon components, ensuring the treated water meets discharge standards. The improved filter material provides superior performance compared to traditional activated carbon filters.
4. **Clean Water Discharge:** The purified water is then discharged through the water outlet, ready for environmentally compliant disposal.

## 6. MAINTENANCE

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Regular maintenance is essential to ensure the long-term efficiency and reliability of your ÖWAMAT 10.

### 6.1 Filter Replacement

- The ÖWAMAT 10 features a conical filter intake, which simplifies the filter replacement process and prevents bypass formation.
- Filter life depends on the volume and quality of condensate. Monitor the unit's performance and replace filters as indicated by the unit or at recommended intervals (refer to specific filter instructions).
- To replace filters, open the large maintenance opening. Follow the specific instructions provided with the replacement filter kit.
- Always use genuine BEKO replacement filters to ensure optimal performance and system integrity.

### 6.2 Condensate Disposal

- The untreated condensate is considered waste and can contain oil components up to 10,000 mg/l.
- The ÖWAMAT 10 significantly reduces the oil content, making the treated water suitable for discharge into the public sewer system in many regions, subject to local regulations.
- The separated oil and used filter elements must be disposed of by a certified waste disposal company in accordance with all applicable environmental laws and regulations.
- On-site condensate treatment with the ÖWAMAT 10 is generally more cost-effective and environmentally friendly than costly disposal by specialized companies.

## 7. TROUBLESHOOTING

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This section provides guidance for common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Water not draining	Clogged outlet line or saturated filter.	Check outlet line for obstructions. Replace filters if saturated.
Oil detected in discharged water	Saturated filters (pre-filter or main filter).	Replace both the oleophilic pre-filter and the main filter. Ensure proper installation of new filters.
Condensate overflow	Blocked inlet or outlet, or excessive condensate volume.	Check all connections and lines for blockages. Verify the unit's capacity matches your compressor's output.

## 8. TECHNICAL SPECIFICATIONS

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Parameter	Value
Model Name	ÖWAMAT 10
Article Number	204 8010
Dimensions (L x W x H)	230 x 270 x 525 mm
Weight	3.67 kg
Condensate Inlet Connection	2 x G 1/2"
Water Outlet Connection	G 1/2"
Max. Oil Content in Inlet Condensate	Up to 10,000 mg/l
Manufacturer	Aircraft

*Note: Specifications are subject to change without notice.*

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to order genuine replacement parts, please contact your authorized Aircraft dealer or visit the official Aircraft website.

### Contact Information:

Please refer to the contact details provided with your purchase or on the official Aircraft website.



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	<p><a href="#">BEKO ÖWAMAT® Oil-Water Separator: Installation and Operation Guide</a></p> <p>Comprehensive guide for installing and operating the BEKO ÖWAMAT® oil-water separator models 12, 14, 15, and 16. Learn about safety, technical data, installation, operation, and maintenance procedures.</p>
	<p><a href="#">BEKO ÖWAMAT® 10 &amp; 11: Original Installation and Operation Manual</a></p> <p>Comprehensive guide for the installation, operation, and maintenance of BEKO TECHNOLOGIES ÖWAMAT® 10 and ÖWAMAT® 11 oil water separators. Learn about safety procedures, technical specifications, and proper disposal for industrial condensate treatment.</p>
	<p><a href="#">BEKO ÖWAMAT® Oil-Water Separator Installation and Operation Manual</a></p> <p>Comprehensive guide for the installation, operation, and maintenance of the BEKO ÖWAMAT® oil-water separator, designed for efficient treatment of compressor condensates. Includes technical data, safety instructions, and component details.</p>
	<p><a href="#">Aircraft Oil Systems: Christen, Raven, Bogert Aviation Components</a></p> <p>Detailed catalog of aircraft oil systems and components from Christen, Aero Conversions, Bogert Aviation, and Raven, including inverted oil systems, oil separators, drain probes, and fitting kits. Features part numbers, descriptions, and prices for Lycoming engines.</p>
	<p><a href="#">Labkotec idSET-32M Battery Oil Separator Alarm Control Unit Data Sheet</a></p> <p>Comprehensive data sheet for the Labkotec idSET-32M Battery, an advanced oil separator alarm control unit featuring integrated modem, multiple sensor support, and LabkoNet cloud service compatibility for remote monitoring and management. Includes technical specifications, installation details, and accessory information for the Battery Box 10.</p>
	<p><a href="#">MANN+HUMMEL ProVent Oil Separator Installation and Maintenance Manual</a></p> <p>This manual provides detailed installation and maintenance instructions for the MANN+HUMMEL ProVent series of oil separators, covering models 100, 150, 200, 400, and 800. It includes safety information, functional descriptions, mounting procedures, maintenance schedules, troubleshooting tips, and technical data.</p>