

SGY-AIR157JH

# Instruction Manual

## KOBALT 3/8-INCH AIR FILTER

Model: SGY-AIR157JH | Item Model Number: 221014

### 1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Kobalt 3/8-inch Air Filter. Please read this manual thoroughly before use to ensure safe and efficient performance of the product. This air filter is designed to remove unwanted dirt particles and water from compressed air lines, extending the life of air tools and equipment.

### 2. Safety Information

**WARNING:**

- Always wear appropriate personal protective equipment (PPE), including eye protection, when working with compressed air systems.
- Ensure the air supply is turned off and pressure is relieved before installing, maintaining, or servicing the air filter.
- Do not exceed the maximum operating pressure of 200 PSI (13.8 bar).
- Do not expose the filter to temperatures above 125°F (51°C).
- This product is designed for use with compressed air only. Do not use with other gases or liquids.
- Inspect the filter bowl regularly for cracks or damage. Replace immediately if damaged.
- Keep out of reach of children.

**California Proposition 65 Warning:**

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 3. What's in the Box

- (1) Kobalt 3/8-inch Air Filter



Image: Front view of the Kobalt 3/8-inch Air Filter in its retail packaging, showing the product and key specifications like 200 MAX PSI and 3/8-in NPT threads.



Image: Back view of the Kobalt 3/8-inch Air Filter retail packaging, displaying product features, specifications, and safety warnings including the California Proposition 65 warning.

## 4. Setup and Installation

1. **Prepare the Installation Location:** Choose a location in your compressed air line that is easily accessible for maintenance and where the filter can be mounted vertically. Ensure there is sufficient

space below the filter for draining accumulated water.

2. **Turn Off Air Supply:** Before beginning installation, ensure the main air compressor is turned off and the air line pressure is completely relieved.
3. **Identify Inlet and Outlet:** The air filter has clearly marked inlet and outlet ports. The inlet port is where compressed air enters, and the outlet port is where filtered air exits. Ensure correct flow direction.



Image: Side view of the Kobalt 3/8-inch Air Filter, highlighting the "OUT" port where filtered air exits the unit.

4. **Connect to Air Line:** Use appropriate 3/8-inch NPT fittings and thread sealant (e.g., PTFE tape) to connect the air filter into your compressed air line. Tighten connections securely to prevent leaks.
5. **Mount the Filter:** The filter includes a mounting bracket. Securely attach the filter to a stable surface using appropriate fasteners. Ensure the filter bowl is vertical for proper water separation and drainage.



Image: Top view of the Kobalt 3/8-inch Air Filter, showing the integrated mounting bracket for secure installation.

6. **Check for Leaks:** Once installed, slowly turn on the air supply and check all connections for leaks using a soapy water solution. Bubbles indicate a leak that needs to be tightened.

## 5. Operating Instructions

The Kobalt 3/8-inch Air Filter operates automatically once installed in the air line. It removes moisture and particulate matter from the compressed air stream.

- **Monitoring Water Level:** The transparent bowl allows for visual inspection of accumulated water. A "MAX LEVEL" indicator is present on the side of the bowl.



Image: Side view of the Kobalt 3/8-inch Air Filter, clearly showing the "MAX LEVEL" indicator on the transparent bowl, which helps monitor accumulated water.

- **Draining Water:** When water accumulates to or near the "MAX LEVEL" line, it must be drained. The filter is equipped with a manual drain valve at the bottom of the bowl.



Image: Close-up view of the manual drain valve located at the bottom of the Kobalt 3/8-inch Air Filter's bowl, used for expelling accumulated water.

## 6. Maintenance

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Regular maintenance ensures the longevity and optimal performance of your air filter.

- **Drain Water Regularly:** Drain the accumulated water from the filter bowl daily or as needed, depending on the humidity and air usage. To drain, turn the knob or open the valve at the bottom of the bowl until all water is expelled. Close the valve securely afterward.
- **Filter Element Replacement:** The filter element should be inspected periodically and replaced when it appears discolored or when there is a noticeable drop in air flow. The frequency of replacement depends on air quality and usage. Refer to the manufacturer's recommendations for replacement filter elements.
- **Cleaning:** The transparent bowl can be cleaned with warm, soapy water. Do not use solvents or harsh chemicals, as these can damage the plastic.
- **Inspection:** Periodically inspect the entire unit for any signs of wear, cracks, or leaks. Replace any damaged components immediately.

## 7. Troubleshooting

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Problem	Possible Cause	Solution
Excessive water in air line downstream of filter	Filter bowl not drained regularly; Damaged filter element; Incorrect installation (not vertical)	Drain filter bowl more frequently; Replace filter element; Reinstall filter vertically
Reduced air flow	Clogged filter element; Excessive water in bowl; Air leak in system	Replace filter element; Drain filter bowl; Check for and seal air leaks
Air leaking from filter connections	Loose fittings; Insufficient thread sealant; Damaged threads	Tighten fittings; Reapply thread sealant; Replace damaged fittings

## 8. Specifications

- **Product Type:** Air Filter
- **Brand:** Kobalt (Generic)
- **Model:** SGY-AIR157JH
- **Item Model Number:** 221014
- **Manufacturer Part Number:** SGY-AIR9JH
- **Port Size:** 3/8-inch NPT Female
- **Maximum Operating Pressure:** 200 PSI (13.8 bar)
- **Flow Rate:** 42 SCFM at 90 PSI inlet, 5 PSI pressure drop
- **Maximum Operating Temperature:** 125°F (51°C)
- **Filtration:** Designed to remove dirt particles and water
- **Fit Type:** Universal Fit



Image: The Kobalt 3/8-inch Air Filter, illustrating its key features including the 200 MAX PSI rating and 3/8-inch NPT threads.



Image: An angled view of the Kobalt 3/8-inch Air Filter, showcasing its overall design and transparent bowl.



Image: A direct front view of the Kobalt 3/8-inch Air Filter, highlighting the "MAX LEVEL" indicator and the Kobalt branding on the side.

## 9. Warranty and Support

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For warranty information and technical support, please refer to the product packaging or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Kobalt