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Broan-NuTone RVK1A

Broan-NuTone RVK1A Roof Vent Kit Instruction Manual

Model: RVK1A

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Broan-NuTone RVK1A Roof Vent Kit. This kit is designed to facilitate the venting of exhaust fans (such as bath, recreation room, or home gym fans) through the roof. It is compatible with both 3-inch and 4-inch ductwork.

Important: This kit is not suitable for dryer venting or installation on flat roofs.

2. SAFETY INFORMATION

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in property damage, personal injury, or voiding of the product warranty.

- Always wear appropriate personal protective equipment (PPE) including gloves, safety glasses, and sturdy footwear when working on a roof.
- Ensure the work area is stable and secure. Use ladders and scaffolding safely.
- Disconnect power to any electrical components (e.g., exhaust fan) before beginning work.
- Consult local building codes and regulations for proper installation practices.
- Do not use this kit for venting combustible materials or in applications not specified in this manual.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your Broan-NuTone RVK1A Roof Vent Kit:

- Steel Roof Cap with backdraft damper and bird screen
- 8 ft. of 4-inch flexible ducting
- 4-inch metal duct connector

- 4-inch to 3-inch reducer adapter
- Nylon zip ties
- Mounting screws

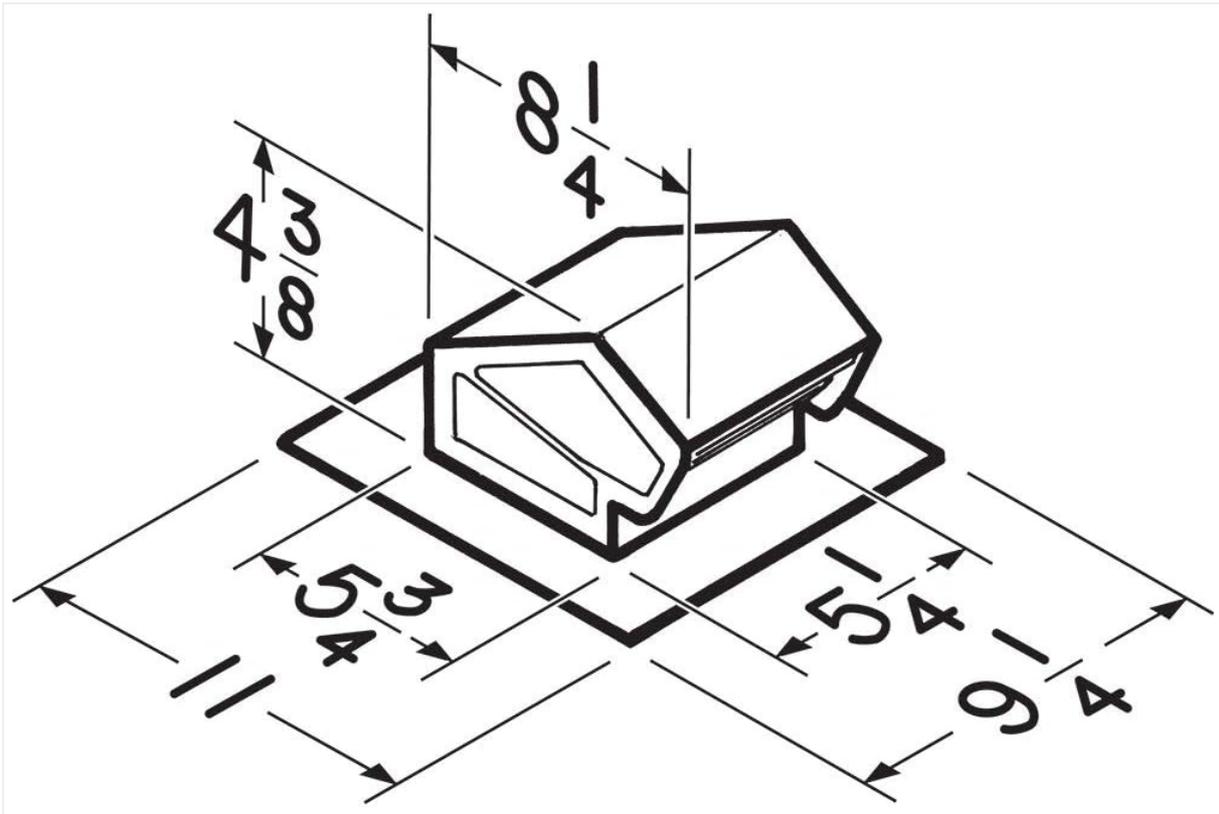


Image 3.1: Components of the RVK1A Roof Vent Kit.

4. INSTALLATION INSTRUCTIONS

4.1. Tools and Materials Required (Not Included)

- Drill
- Screwdriver
- Utility knife or tin snips
- Caulking gun and roofing sealant (e.g., Henry/root sealant)
- Measuring tape
- Pry bar (for lifting shingles)
- Duct tape (metal foil tape recommended for secure seals)

4.2. Pre-Installation Steps

1. **Determine Vent Location:** Choose a suitable location on the roof, ideally close to the exhaust fan, ensuring proper clearance from other roof obstructions and adequate attic access.
2. **Prepare Roof Opening:** From the attic, locate the desired exit point. Drill a pilot hole through the roof. From the exterior, use the pilot hole as a guide to cut a circular opening in the roof sheathing. The opening should be sized appropriately for the ductwork (e.g., 4 inches in diameter).
3. **Clear Shingles:** Carefully lift and loosen shingles around the opening to allow the flashing of the roof cap to slide underneath. Avoid damaging shingles.

4.3. Mounting the Roof Cap

1. **Position the Roof Cap:** Slide the flashing of the roof cap underneath the lifted shingles, ensuring the

vent opening aligns with the hole in the roof. The cap should be oriented so the exhaust opening faces away from prevailing winds.

2. **Secure the Cap:** Fasten the roof cap to the roof deck using the provided mounting screws. Drive screws through the flashing into the roof sheathing.
3. **Seal the Flashing:** Apply a generous amount of roofing sealant (e.g., Henry/root sealant) around the top and sides of the flashing where it meets the shingles to prevent water infiltration. Do not seal the bottom edge, as this allows any trapped water to drain.
4. **Re-secure Shingles:** Carefully press the lifted shingles back into place over the flashing.

4.4. Connecting Ductwork

1. **Attach Duct Connector:** From the attic, slide the 4-inch metal duct connector onto the collar of the roof cap. Secure it with duct tape (metal foil tape recommended) and/or a nylon zip tie.
2. **Connect Flexible Ducting:** Attach one end of the 8 ft. flexible ducting to the metal duct connector. Secure it firmly with duct tape and a nylon zip tie.
3. **Connect to Exhaust Fan:** Route the flexible ducting to the exhaust fan's discharge port. If your fan uses 3-inch ducting, use the provided 4-inch to 3-inch reducer adapter. Secure all connections with duct tape and nylon zip ties. Ensure the ducting is as straight as possible with minimal bends to maximize airflow.
4. **Insulate Ducting (Optional but Recommended):** In humid climates, insulating the ducting can help prevent condensation buildup.

5. OPERATION

The Broan-NuTone RVK1A Roof Vent Kit is a passive component designed to work in conjunction with an interior exhaust fan. When the exhaust fan is activated, it pushes air through the connected ductwork and out through the roof cap. The integrated backdraft damper prevents outside air from entering the home when the fan is off, and the bird screen prevents pests from entering the ductwork.

Ensure your exhaust fan is properly installed and functioning to achieve optimal ventilation through this roof vent kit.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your roof vent kit.

- **Annual Inspection:** Periodically inspect the exterior of the roof cap for any damage, loose flashing, or compromised sealant. Reapply sealant as necessary.
- **Check Bird Screen:** Ensure the bird screen is clear of debris, leaves, or nests that could obstruct airflow. Carefully remove any blockages.
- **Inspect Damper:** From the attic, check that the backdraft damper opens and closes freely. Ensure it is not stuck open or closed by debris.
- **Ductwork Integrity:** Verify that all duct connections remain secure and that the flexible ducting is free from kinks or tears.

7. TROUBLESHOOTING

7.1. Poor Airflow from Exhaust Fan

- **Check Ducting:** Ensure the flexible ducting is not kinked, crushed, or excessively long. Straighten any bends.

- **Inspect Bird Screen:** Verify the bird screen on the roof cap is not clogged with debris.
- **Damper Obstruction:** Check if the backdraft damper is stuck or obstructed, preventing it from opening fully.
- **Fan Issue:** Confirm the exhaust fan itself is operating correctly.

7.2. Water Leakage Around Vent

- **Sealant Integrity:** Inspect the roofing sealant around the flashing. Reapply or repair any cracked or deteriorated sealant.
- **Flashing Placement:** Ensure the flashing is properly installed underneath the shingles. Improper flashing can lead to leaks.
- **Condensation:** In cold climates, condensation can form inside uninsulated ductwork and drip. Consider insulating the ducting.

8. SPECIFICATIONS

Feature	Detail
Model Number	RVK1A
Material	Steel
Color	Black
Product Dimensions	11 x 9.25 x 4.38 inches
Item Weight	2.3 pounds
Duct Compatibility	3-inch or 4-inch
Included Components	Ducting, connector, nylon zip ties, mounting screws, 3" to 4" reducer
Country of Origin	Mexico (Made in the USA)



Image 8.1: Dimensional drawing of the RVK1A Roof Vent.

9. WARRANTY & SUPPORT

9.1. Warranty Information

This Broan-NuTone RVK1A Roof Vent Kit comes with a **1-Year Limited Warranty**. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty documentation included with your product or visit the official Broan-NuTone website.

9.2. Customer Support

If you have any questions, require technical assistance, or need to report a missing or damaged part, please contact Broan-NuTone customer support. Contact information can typically be found on the product packaging or the official Broan-NuTone website:

- **Website:** www.broan-nutone.com
- **Phone:** Refer to the website for regional contact numbers.

Please have your model number (RVK1A) and purchase date available when contacting support.