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> Furrion 10-Blade, 14" RV Rooftop Vent Exhaust Fan User Manual

Furrion FVF14D90R6A-PS-AM

Furrion RV Rooftop Vent Exhaust Fan User Manual

Model: FVF14D90R6A-PS-AM

Brand: Furrion

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Furrion 10-Blade, 14" RV Rooftop Vent Exhaust Fan. Designed to enhance air circulation within your recreational vehicle, this fan features a robust 10-blade design, four fan speeds, and user-friendly push-button controls. Its flush-mount design ensures a sleek integration with your RV's roof, compatible with roofs ranging from 2 to 7 inches thick.

Please read this manual thoroughly before installation and use to ensure proper function and safety. Retain this manual for future reference.

IMPORTANT SAFETY INFORMATION

WARNING: Failure to follow these instructions could result in electric shock, fire, or serious injury.

- Always disconnect power to the RV's 12V DC system before beginning any installation or maintenance.
- Ensure proper ventilation when working with sealants and adhesives.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation.
- Verify all wiring connections are secure and correctly polarized (positive to positive, negative to negative).
- Do not operate the fan if the insect screen is removed, as this could lead to foreign objects entering the fan mechanism.
- Consult a qualified professional if you are unsure about any part of the installation process.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Furrion RV Rooftop Vent Exhaust Fan with Lid

- Installation Hardware (various screws and connectors)
- 1 Tube of Self-Leveling Sealant
- 1 Roll of Butyl Tape
- 1 6" Trim Ring



Image: The Furrion RV Rooftop Vent Exhaust Fan with its lid open, alongside the included installation hardware, a tube of sealant, and a roll of butyl tape.

SPECIFICATIONS

Feature	Detail
Model Number	FVF14D90R6A-PS-AM (also FVF14D90R6A-PW-AM)
Fan Type	10-Blade Exhaust Fan
Fan Speeds	Four (4)
Controls	Push-Button

Feature	Detail
Power Requirement	12 Volts DC
Roof Thickness Compatibility	2" to 7"
Design	Flush-Mount
Special Features	Removable Insect Screen
Item Weight	14.37 pounds
Product Dimensions	16 x 16 x 8 inches (Approximate: 18.0625" x 16.375" top flange)

Approximate Dimensions



Depth: 6"

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Image: Diagram showing the approximate dimensions of the fan's top flange, measuring 18.0625 inches by 16.375 inches, with a depth of 6 inches.

INSTALLATION GUIDE

This section outlines the general steps for installing your Furrion RV Rooftop Vent Exhaust Fan. It is recommended to have basic RV electrical and construction knowledge. If unsure, seek professional assistance.

Tools and Materials Required (Not Included, except as specified in Package Contents):

- Drill with appropriate bits
- Screwdriver (Phillips head)
- Measuring tape
- Pencil or marker
- Caulking gun (for sealant)
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Cleaning supplies (for roof surface)

Step-by-Step Installation:

1. Prepare the Installation Area:

Ensure the RV is parked on a level surface. Disconnect all power to the RV's 12V DC system at the battery or main power panel. Clean the roof area where the vent will be installed, removing any dirt, debris, or old sealant.

2. Create the Opening (if necessary):

If replacing an existing vent, carefully remove the old unit and clean the opening. If installing in a new location, mark and cut a 14" x 14" opening in the RV roof. Ensure the opening is square and free of obstructions like wiring or structural elements.

3. Apply Butyl Tape:

Apply the included butyl tape around the perimeter of the fan's mounting flange on the underside. Ensure a continuous, watertight seal.

DIY Installation

Comes ready to install with the necessary butyl tape, sealant and hardware



Image: The DIY installation kit, including a tube of self-leveling sealant, electrical connectors, and various screws, ready for use.

4. Position and Secure the Fan:

Carefully lower the fan assembly into the roof opening, ensuring the butyl tape creates a tight seal against the roof surface. Press down firmly. Secure the fan to the roof using the provided screws, driving them through the mounting flange into the roof structure. Do not overtighten.

5. Connect Wiring:

Locate the 12V DC power wires in your RV's ceiling near the opening. Connect the fan's positive wire (usually red) to the RV's positive 12V wire, and the fan's negative wire (usually black or white with a stripe) to the RV's negative/ground wire. Use appropriate electrical connectors (included) and ensure connections are secure and insulated with electrical tape or heat shrink tubing.

6. Apply Sealant:

Apply a generous bead of the self-leveling sealant around the entire perimeter of the fan's mounting flange on the roof, covering all screw heads. This creates a secondary waterproof barrier. Allow the sealant to cure according to the manufacturer's instructions.

7. Install Interior Trim Ring:

From inside the RV, slide the 6" trim ring into place, aligning it with the fan assembly. Secure the trim ring with the appropriate screws (if provided, or as per fan instructions) to complete the interior finish.

After installation, reconnect RV power and test the fan's operation.

OPERATION

Your Furrion RV Rooftop Vent Exhaust Fan is designed for simple and efficient operation.

Fan Controls:

- **Power Button:** Press to turn the fan ON or OFF.
- **Speed Control Buttons:** The fan features four distinct speed settings (1, 2, 3, 4). Press the speed control buttons to cycle through the desired fan speed.
- **Lid Control:** The lid can be opened and closed manually or via a control mechanism (refer to your specific model's design for details). Ensure the lid is fully open for optimal airflow during operation and fully closed when not in use or during travel.

Efficient Operation

The Speed-1 setting also circulates outside air through the rig without draining your RV batteries



Image: A finger pressing one of the push-button controls on the fan's interior panel, demonstrating the ease of use for adjusting fan settings.

Efficient Operation Tip: The Speed-1 setting is designed to circulate outside air through your RV with minimal power consumption, making it ideal for continuous ventilation without significantly draining your RV batteries.

Robust Design

**10-blade exhaust fan with four speeds
keeps the air inside your RV fresh**



Image: A close-up view of the fan's 10-blade exhaust system, highlighting its robust design for effective air movement.



Image: The Furrion RV vent fan installed flush with an RV ceiling, showing its integrated appearance and the fan blades visible through the insect screen.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Furrion RV Rooftop Vent Exhaust Fan.

Cleaning the Insect Screen:

The fan features a removable insect screen for easy cleaning. Periodically remove the screen to clear any accumulated dust, debris, or insects that may obstruct airflow.

1. **Disconnect Power:** Always disconnect 12V DC power to the fan before performing any maintenance.
2. **Remove Screen:** Gently unclip or unscrew the insect screen from the fan assembly. Refer to the specific design of your fan for removal instructions.
3. **Clean Screen:** Wash the screen with mild soap and water. Rinse thoroughly and allow it to dry completely before reinstallation.

4. **Clean Fan Blades:** While the screen is removed, carefully wipe down the fan blades with a damp cloth to remove any dust.
5. **Reinstall Screen:** Once dry, reattach the insect screen securely. Ensure it is properly seated to prevent debris from entering the fan.

Easy to Use

Push-button controls and removable insect screen for ease of use and maintenance



Image: Hands demonstrating the removal of the circular insect screen from the fan's interior, highlighting its easy-to-clean design.

Exterior Maintenance:

- Periodically inspect the exterior lid and sealant around the fan on the RV roof for any cracks, damage, or signs of wear.
- Clean the exterior lid with mild soap and water. Avoid abrasive cleaners that could damage the plastic.
- If the sealant shows signs of degradation, reapply or repair as necessary to maintain a watertight seal.

If you encounter issues with your Furrion RV Rooftop Vent Exhaust Fan, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Fan does not turn on.	No 12V DC power; Blown fuse; Loose wiring connection; Faulty switch.	Check RV's 12V power supply. Inspect and replace fuse if blown. Verify all wiring connections are secure. If problem persists, contact support.
Fan runs slowly or weakly.	Low voltage; Dirty fan blades/screen; Obstruction.	Check RV battery voltage. Clean insect screen and fan blades. Ensure no obstructions are blocking the fan.
Excessive noise during operation.	Loose mounting; Debris in fan blades; Worn motor bearings.	Check mounting screws for tightness. Remove any debris from fan blades. If noise persists and is mechanical, contact support.
Water leaking around the vent.	Improper sealant application; Damaged lid or seal.	Inspect sealant around the fan on the roof. Reapply sealant as needed. Check lid and gasket for damage and replace if necessary.

For issues not listed here or if solutions do not resolve the problem, please contact Furrion customer support.

WARRANTY AND SUPPORT

Furrion products are manufactured to the highest standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Furrion website.

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact Furrion Customer Support:

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

When contacting support, please have your product model number (FVF14D90R6A-PS-AM) and purchase date available.