

## HVAC Premium RG86AL

# HVAC Premium 8x6 Inch Aluminum Return Grille Instruction Manual

Model: RG86AL

## INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of your HVAC Premium 8x6 Inch Aluminum Return Grille. This grille is designed to facilitate efficient airflow and ventilation in residential and commercial HVAC systems.

### Key Features:

- **Perfect Fit & Easy Installation:** Designed for an 8" W x 6" H duct opening, with outer dimensions of 9.875" W x 7.875" H.
- **Durable Extruded Aluminum Build:** Constructed from high-quality extruded aluminum for strength and long-lasting performance.
- **Smooth Airflow & Ventilation:** Features fixed 45-degree horizontal bars for efficient airflow and reduced noise.
- **Sleek & Modern Design:** Reinforced mitered corners and a rigid bar face with a white powder-coated finish.
- **Multi-Purpose Use:** Suitable for home, office, or commercial HVAC systems to enhance air circulation.

## PRODUCT OVERVIEW

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The HVAC Premium Aluminum Return Grille is a component of your heating, ventilation, and air conditioning system. It is designed to cover duct openings while allowing air to return to the HVAC unit for conditioning.

# HOW TO MEASURE A GRILLE

1. Measure the size of the air duct/drywall opening.
2. Do not measure the overall size of the register itself, only measure the "hole" in the wall/duct.
3. Every grille has a front end frame, that will overlap at wall joint.



Figure 1: Front view of the HVAC Premium Aluminum Return Grille.

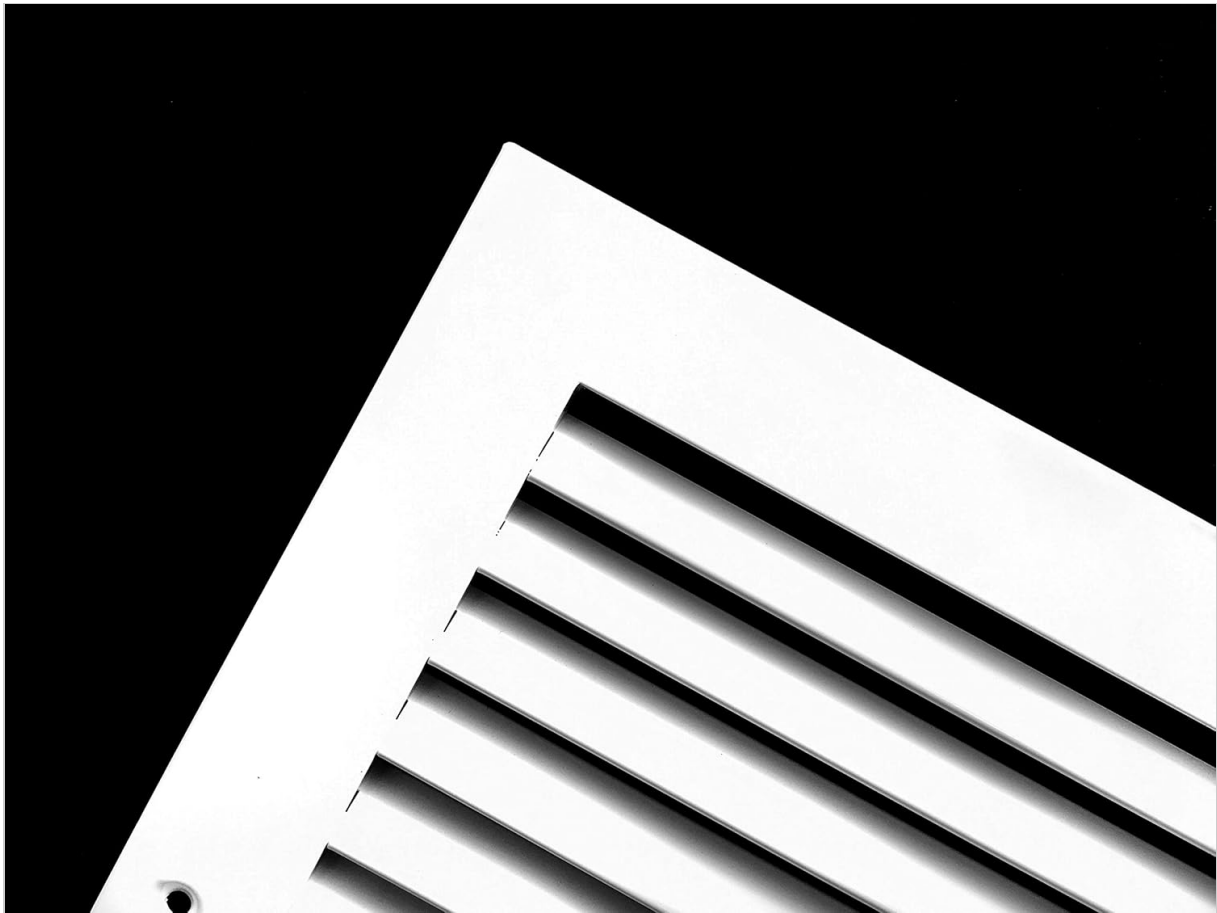


Figure 2: Angled view showing the fixed 45-degree horizontal bars.

## SETUP AND INSTALLATION

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Proper measurement and installation are crucial for optimal performance and aesthetic integration of your return grille.

### **1. Measuring for Installation:**

It is essential to measure the size of the air duct or drywall opening, not the overall size of the grille itself. The grille's outer frame is designed to overlap the wall joint.

1. Measure the width of the air duct/drywall opening.
2. Measure the height of the air duct/drywall opening.
3. The grille size corresponds to the duct opening dimensions (e.g., an 8x6 grille fits an 8-inch wide by 6-inch high opening).

# Please Read Carefully



## How To Measure A Grille

**Instructions:** When considering the size of a grille register, the most important feature is to know the size of the \*duct hole\*!

→ The \*duct hole\* is the opening in the wall and/or floor or where the grille will go. **This is your purchase size!**

### Reading the [Width vs Height]

The first number in a grill size represents the Width, and the second number represents the Height.

**Example:** if the air duct hole/opening is 20" wide by 14" tall, order a 20x14.

Figure 3: Illustration of correct duct opening measurement for grille selection.



Figure 4: Detailed text instructions for measuring a grille.

## 2. Installation Steps:

1. Ensure the duct opening is clean and free of debris.
2. Position the grille over the duct opening, aligning the screw holes with the wall or ceiling.
3. Use the provided screws to secure the grille firmly in place. Avoid overtightening to prevent damage to the grille or mounting surface.
4. Verify that the grille is flush with the surface and securely attached.

## OPERATING INSTRUCTIONS

The HVAC Premium Return Grille is a passive component designed to optimize air return to your HVAC system. Its fixed 45-degree horizontal bars are engineered for efficient airflow and to minimize noise.

### Airflow:

The linear bar design promotes consistent and unobstructed air return, contributing to the overall efficiency of your heating and cooling system. No adjustments are required for airflow, as the bars are fixed.

### Noise Considerations:

While designed to reduce noise, in some installations, air velocity or vibrations within the ductwork may cause a slight buzzing sound. If this occurs, ensure the grille is securely mounted and consider applying a

small amount of silicone or hot glue to the ends of the vent slats where they meet the frame to dampen potential vibrations.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your return grille.

### Cleaning:

- Periodically wipe the grille surface with a soft, damp cloth to remove dust and debris.
- For stubborn dirt, a mild soap solution can be used. Avoid abrasive cleaners or harsh chemicals, as these may damage the powder-coated finish.
- Ensure the grille is completely dry before re-installation if removed for cleaning.

### Inspection:

- Inspect the grille periodically for any signs of damage, such as bent bars or chipped paint.
- Check that all mounting screws are secure.

## TROUBLESHOOTING

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This section addresses common issues you might encounter with your return grille.

Problem	Possible Cause	Solution
Grille is making a buzzing or rattling noise.	Vibrations from airflow or loose mounting.	<ul style="list-style-type: none"><li>• Ensure all mounting screws are tightened.</li><li>• Apply a small bead of silicone or hot glue to the ends of the horizontal bars where they meet the frame to dampen vibrations.</li></ul>
Grille does not fit the opening.	Incorrect measurement of the duct opening.	<ul style="list-style-type: none"><li>• Re-measure the duct opening carefully (width x height).</li><li>• Ensure the ordered grille size matches the duct opening, not the outer dimensions of the old grille.</li></ul>
Reduced airflow.	Accumulation of dust or debris on the grille.	<ul style="list-style-type: none"><li>• Clean the grille thoroughly as described in the Maintenance section.</li><li>• Check your HVAC system's air filter for blockage.</li></ul>

## SPECIFICATIONS

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Attribute	Detail
Model Number	RG86AL
Duct Opening Size	8 inches (Width) x 6 inches (Height)
Outer Dimensions	9.875 inches (Width) x 7.875 inches (Height)

Attribute	Detail
Material	Extruded Aluminum
Finish	White Powder-Coated
Bar Angle	Fixed 45-degree horizontal
Item Weight	9.6 ounces
Included Components	Return Grille, Mounting Screws

## WARRANTY AND SUPPORT

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HVAC Premium products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt for warranty claims.

**Manufacturer:** HVAC Premium

**Website:** [Visit the HVAC Premium Store on Amazon](#)

## ADDITIONAL RESOURCES

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### Product Videos:

#### HVAC Premium Return Air Grille Unboxing (22x22 inch model)

Your browser does not support the video tag.

This video provides an unboxing and initial overview of an HVAC Premium return air grille, specifically a 22x22 inch model. It highlights the packaging and general appearance of the product.

#### HVAC Premium Return Air Grate Unboxing (36x24 inch model)

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This video presents an unboxing of a larger HVAC Premium return air grate, a 36x24 inch steel model. It demonstrates the product's packaging and initial presentation, including the individually packaged screws and corner protection.