

Broan-NuTone 744LED

Broan-NuTone 744LED Recessed Light Ventilation Fan with LED

Model: 744LED | Brand: Broan-NuTone

INTRODUCTION

This manual provides comprehensive instructions for the safe installation, operation, and maintenance of your Broan-NuTone 744LED Recessed Light Ventilation Fan. This unit combines efficient ventilation with integrated LED lighting, designed for discreet ceiling installation. Please read all instructions carefully before beginning installation or use.

SAFETY INFORMATION

WARNING: To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Do not use this fan with any solid-state speed control device.
- This unit is UL Listed for use over a tub or shower when connected to a GFCI protected branch circuit.
- Not for use over cooking surfaces.

PRODUCT FEATURES

- **High-Efficiency Ventilation:** Features a centrifugal fan delivering 70 Cubic Feet Per Minute (CFM) at 1.5 Sones for effective air movement.
- **Integrated LED Lighting:** Includes a 10-watt, GU24 based LED bulb providing 800 lumens for task

lighting. ENERGY STAR certified for energy efficiency.

- **Modern Design:** White trim designed to blend seamlessly with major recessed light manufacturers' products.
- **Durable Construction:** 6.87-inch high housing suitable for new construction and 2-inch by 8-inch ceiling joists.
- **Ducting:** Equipped with a 4-inch round duct connector.
- **Safety Certified:** UL Listed for use over tubs or showers when connected to a GFCI protected branch circuit.

INSTALLATION

Proper installation is crucial for the performance and safety of your ventilation fan. Refer to the detailed wiring diagrams and mounting instructions included in the packaging for specific steps. The unit is designed for recessed installation in ceilings.



Figure 1: Overview of the Broan-NuTone 744LED Recessed Light Ventilation Fan unit, showing the metal housing, 4-inch round duct connector, and the integrated light fixture.

PRACTICAL

6.87" High Housing Appropriate for
New Construction and 2" x 8" Ceiling Joists

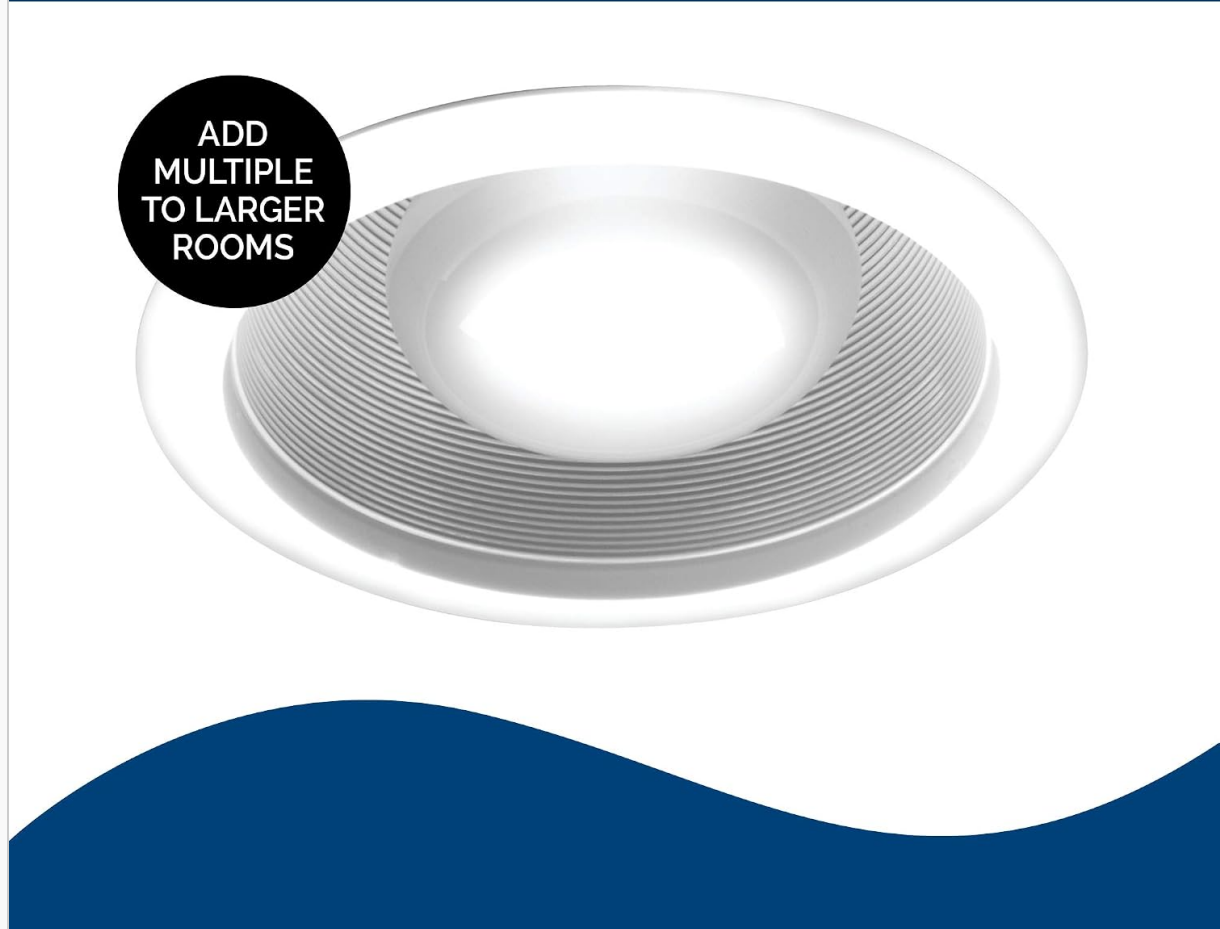


Figure 2: Close-up view of the fan's trim, emphasizing its 6.87-inch high housing, which is appropriate for new construction and 2-inch by 8-inch ceiling joists.

Key Installation Considerations:

- Ensure adequate clearance in the ceiling for the 6.87-inch high housing.
- Connect the 4-inch round duct to appropriate ventilation ducting.
- Electrical connections must comply with local codes. The unit requires a 120-volt AC power source.
- For installation over a tub or shower, connect to a GFCI protected branch circuit.

OPERATION

The Broan-NuTone 744LED fan and light can be operated independently or together, depending on your wiring configuration. Optional wall controls are available for simplified use.

FAN & LIGHT COMBO

- High-efficiency Centrifugal Fan with a 4" Round Duct Connector
- 1.5 Sones rating at 70 CFM



Figure 3: Detailed view of the fan and light combination, illustrating the discreet design of the recessed light and ventilation opening.

Using the Fan and Light:

- **Light Operation:** The integrated LED light provides bright illumination. It can be switched on/off via a standard wall switch.
- **Fan Operation:** The ventilation fan removes moisture and odors. It can be switched on/off via a separate wall switch or an optional humidity-sensing control (sold separately).
- **Combined Operation:** If wired to a single switch, both the fan and light will activate simultaneously.

Video 1: This video provides a brief overview of various Broan-NuTone ventilation products, including recessed lighting fans, highlighting their features and benefits for improving indoor air quality.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Broan-NuTone ventilation fan.

Cleaning Instructions:

- **Always disconnect power** at the service panel before cleaning.
- **Grille Cleaning:** Remove the grille by gently pulling down. Wash the grille in warm soapy water, rinse, and dry thoroughly.

- **Motor/Fan Blade Cleaning:** Use a soft cloth or brush to wipe dust and debris from the motor housing and fan blades. Do not immerse the motor in water.
- **Light Bulb Replacement:** The LED bulb is designed for long life (25,000 hours). If replacement is necessary, ensure power is off and replace with a GU24 based LED bulb of appropriate wattage (max 14W).

TROUBLESHOOTING

If your fan or light is not operating correctly, consult the following common issues and solutions:

Problem	Possible Cause	Solution
Fan does not operate	No power to unit; loose wiring; motor malfunction	Check circuit breaker/fuse; verify wiring connections; contact qualified electrician if motor is faulty.
Light does not turn on	Bulb faulty or loose; no power to light circuit	Replace bulb; check wiring to light fixture; ensure power is on.
Excessive noise	Fan blades dirty or obstructed; loose mounting screws; motor issues	Clean fan blades; tighten mounting screws; contact support if motor noise persists.
Poor air movement	Ducting obstructed or improperly installed; fan blades dirty	Check ductwork for obstructions; ensure proper duct installation; clean fan blades.

SPECIFICATIONS

Feature	Detail
Brand	Broan-NuTone
Model Name	744LED
Air Flow Capacity	70 CFM
Noise Level	1.5 Sones
Wattage (Light)	10 watts (max 14W)
Voltage	120 Volts
Product Dimensions	6.88"D x 8.25"W x 12.75"H
Installation Type	Recessed
Special Feature	ENERGY STAR Certified, LED Light
Included Components	Light Kit
Indoor/Outdoor Usage	Indoor
Color	White

WARRANTY AND SUPPORT

This Broan-NuTone product comes with a **3-year warranty**. For warranty claims, technical assistance, or to purchase replacement parts, please contact Broan-NuTone customer support. Refer to the official Broan-NuTone website for the most current contact information and detailed warranty terms.

Online Resources: For additional information and support, visit the [Broan-NuTone Store on Amazon](#).
