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› Broan-NuTone BEL6 Bathroom Exhaust Fan with LED Light User Manual

Broan-NuTone BEL6

Broan-NuTone BEL6 Bathroom Exhaust Fan with LED Light User Manual

Model: BEL6

1. IMPORTANT SAFETY INFORMATION

Read and understand all instructions before installing or operating this fan. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- Always disconnect power at the service panel before wiring or servicing the unit.
- All wiring must be performed by a qualified electrician in accordance with all applicable codes and standards, including fire-rated construction codes.
- This unit is designed for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- To reduce the risk of fire or electrical shock, do not expose this fan to water or moisture.
- Ensure the fan is properly grounded.
- Do not install in a cooking area.

2. PRODUCT OVERVIEW

The Broan-NuTone BEL6 is an ENERGY STAR certified bathroom exhaust fan with an integrated LED light, designed for efficient moisture and odor removal in bathrooms up to 45 sq. ft. Its innovative roomside installation feature simplifies the setup process, often eliminating the need for attic access or drywall cutting. The fan operates quietly at 0.9 sones, providing effective ventilation without significant noise. The CleanCover grille offers a modern, seamless appearance and is easy to clean.



Figure 2.1: Front view of the Broan-NuTone BEL6 Bathroom Exhaust Fan with LED Light.

Key Features:

- **ENERGY STAR Certified:** Reduces energy consumption by over 50% compared to standard bath fans.
- **Quiet Operation:** Operates at 0.9 Sones, suitable for maintaining a peaceful environment.
- **Roomside Installation:** Designed for easy installation without attic access and no drywall cutting necessary for many retrofit applications.
- **SlideClip™ Grille:** Patent-pending technology for fast, springless grille attachment and easy cleaning.
- **CleanCover™ Grille:** Seamless design that blends into the ceiling for a modern aesthetic.
- **Integrated LED Light:** Provides illumination for the bathroom space.



Figure 2.2: Overview of BEL6 fan features.

3. SETUP AND INSTALLATION

The BEL6 fan is engineered for versatile roomside installation. While designed to minimize the need for attic access and drywall cutting, some existing structural conditions may require additional modifications or attic access for proper securement.

Tools and Materials Required:

- Screwdriver (Phillips and Flathead)
- Wire Strippers
- Drill
- Utility Knife or Drywall Saw
- Measuring Tape
- Safety Glasses and Gloves
- Duct Tape (for sealing duct connections)
- 4-inch diameter ducting (if not already present)

Installation Steps:

1. **Prepare the Area:** Turn off power at the circuit breaker. Locate the desired installation area in the ceiling. The fan requires a rough opening of approximately 7.5"D x 7.25"W x 5.75"H. Ensure there is adequate space above the ceiling for the fan housing and ductwork.
2. **Cut the Ceiling Opening:** Using the provided template or the fan housing dimensions, carefully mark and cut the opening in the ceiling.
3. **Connect Ductwork:** Attach a 4-inch diameter duct to the fan's exhaust collar. Secure with duct tape to ensure an

airtight seal. Route the duct to an exterior vent cap.

4. **Mount the Fan Housing:** The fan features foldable mounting ears for easy installation. Insert the fan housing into the ceiling opening. Secure the housing to the ceiling joists or framing using appropriate fasteners. For roomside installation, the mounting ears can be adjusted and secured from below.
5. **Electrical Connection:** Connect the household wiring to the fan's wiring according to the wiring diagram provided in the full installation guide (not included here). Ensure all connections are secure and comply with local electrical codes. The fan operates on 120 Volts.
6. **Install the Grille:** The CleanCover grille utilizes SlideClip™ technology for easy, springless attachment. Align the grille with the fan housing and push it firmly until it clips into place.

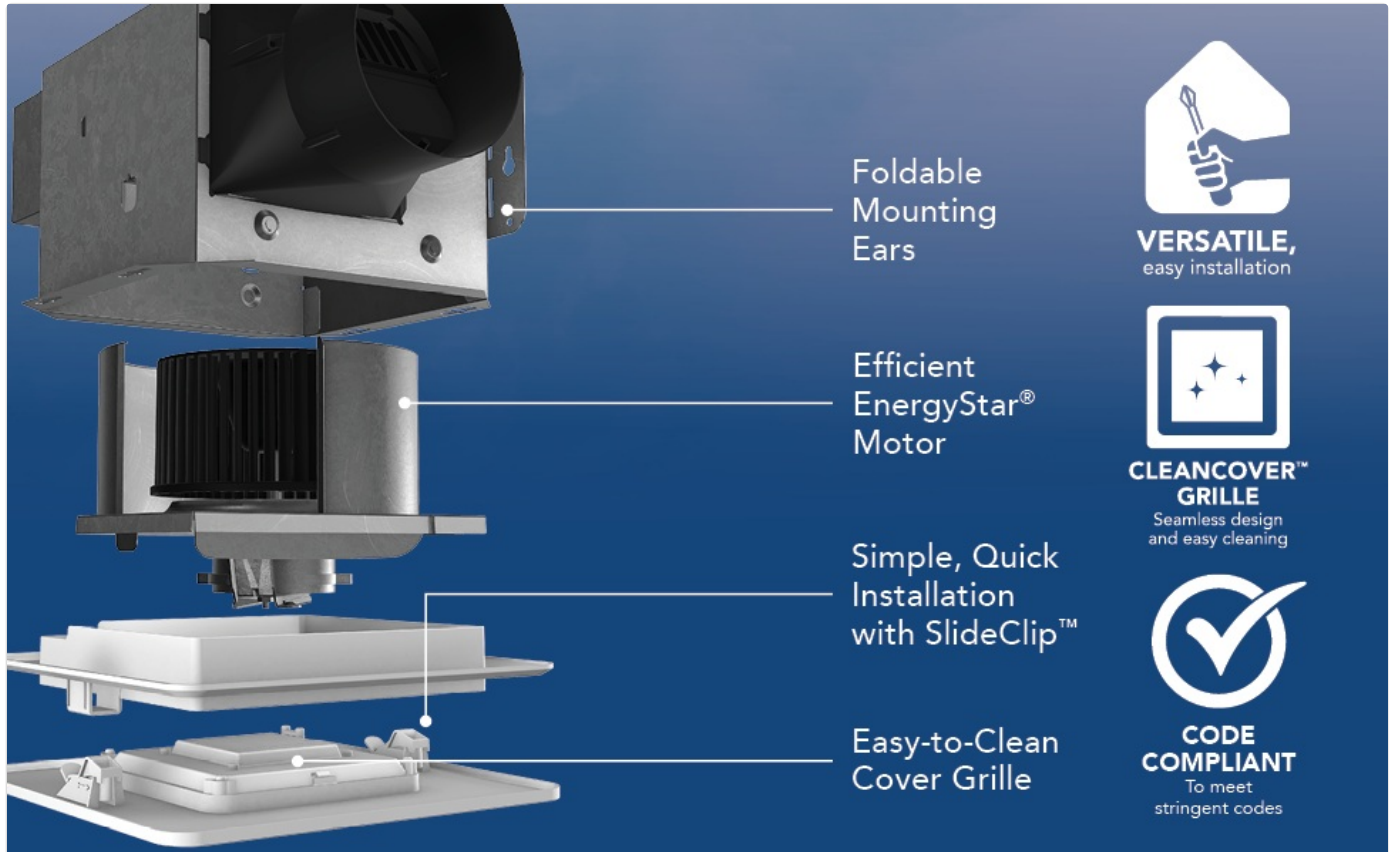
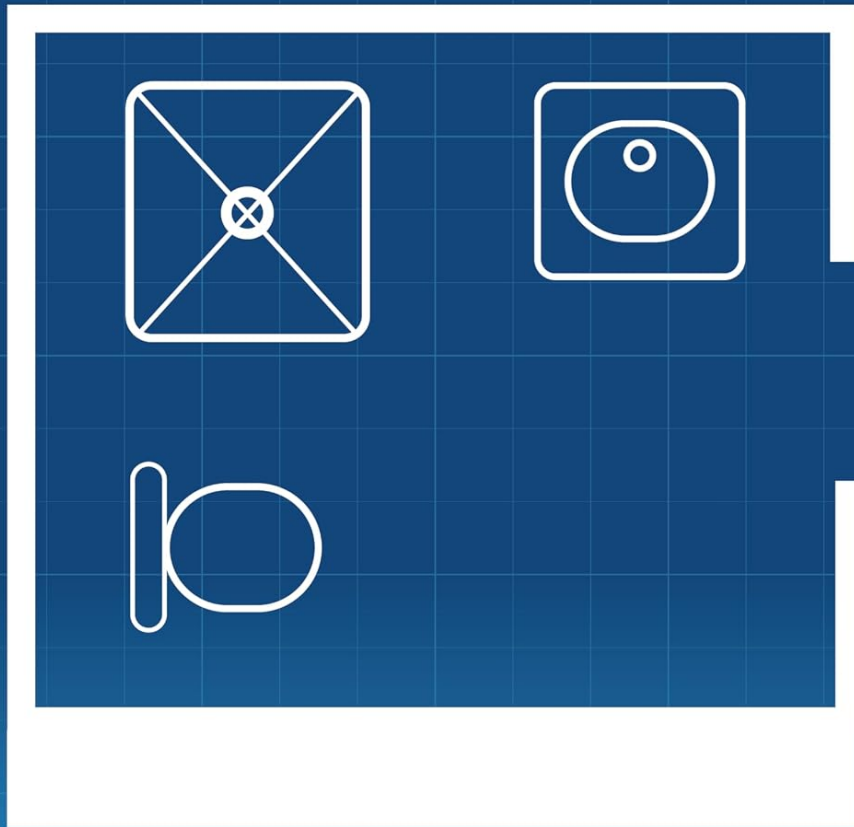


Figure 3.1: Roomside installation process.



Ideal for Small Rooms up to 80 Square Feet

Figure 3.2: SlideClip™ grille installation detail.

4. OPERATING INSTRUCTIONS

The Broan-NuTone BEL6 fan is designed for simple operation.

- **Power On/Off:** The fan and light are typically controlled by a standard wall switch (not included). Flip the switch to turn the fan and light on or off.
- **Ventilation:** Operate the fan during and after showering or bathing to effectively remove moisture and odors from the bathroom, helping to prevent mold and mildew growth.
- **LED Light:** The integrated LED light provides general illumination. It operates simultaneously with the fan unless wired to a separate switch (if applicable).

5. MAINTENANCE

Regular cleaning and maintenance will ensure optimal performance and longevity of your Broan-NuTone BEL6 fan.

Cleaning the Grille and Fan Housing:

1. **Disconnect Power:** Always turn off power to the fan at the service panel before cleaning.
2. **Remove Grille:** Gently pull down on the CleanCover grille to detach it from the SlideClip mounts.
3. **Clean Grille:** Wash the grille in warm, soapy water. Rinse thoroughly and dry completely before reattaching.
4. **Clean Fan Interior:** Use a soft cloth or a vacuum cleaner with a brush attachment to remove dust and debris from the fan motor, blower wheel, and interior of the housing. Do not allow water to enter the motor.
5. **Reattach Grille:** Align the grille with the fan housing and push it firmly until it clips back into place.
6. **Restore Power:** Turn power back on at the service panel.

No lubrication is required for the fan motor. The LED light module is designed for long-term operation and is not user-serviceable.

6. TROUBLESHOOTING

If you experience issues with your Broan-NuTone BEL6 fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not operate / Light does not turn on	No power to the unit Loose wiring connection Faulty wall switch	Check circuit breaker and wall switch. Ensure power is on. Verify all wiring connections are secure (with power off). Test or replace the wall switch.
Fan is noisy	Loose mounting Debris in fan housing Ductwork obstruction or damage	Ensure fan housing is securely mounted. Clean fan housing and blower wheel (see Maintenance). Check ductwork for kinks, obstructions, or leaks.
Insufficient ventilation	Fan size too small for room Ductwork obstruction Blocked exterior vent	Ensure fan CFM matches room size requirements. Check ductwork for obstructions or leaks. Verify exterior vent cap is clear of debris.
LED light flickers or is dim	Loose wiring connection Power fluctuation	Verify electrical connections (with power off). Consult an electrician if power fluctuations are suspected.

If problems persist after attempting these solutions, contact Broan-NuTone customer support or a qualified electrician.

7. SPECIFICATIONS

Feature	Specification
Model Name	BEL6
Brand	Broan-NuTone

Feature	Specification
Air Flow Capacity	60 Cubic Feet Per Minute (CFM)
Noise Level	0.9 Sones
Voltage	120 Volts
Wattage	18 watts
Product Dimensions (D x W x H)	7.5"D x 7.25"W x 5.75"H
Grille Dimensions	9.75" x 9.75"
Duct Diameter	4 inches
Special Feature	LED Light
Installation Type	Room Side Installation
Specification Met	Energy Star
UPC	026715274154

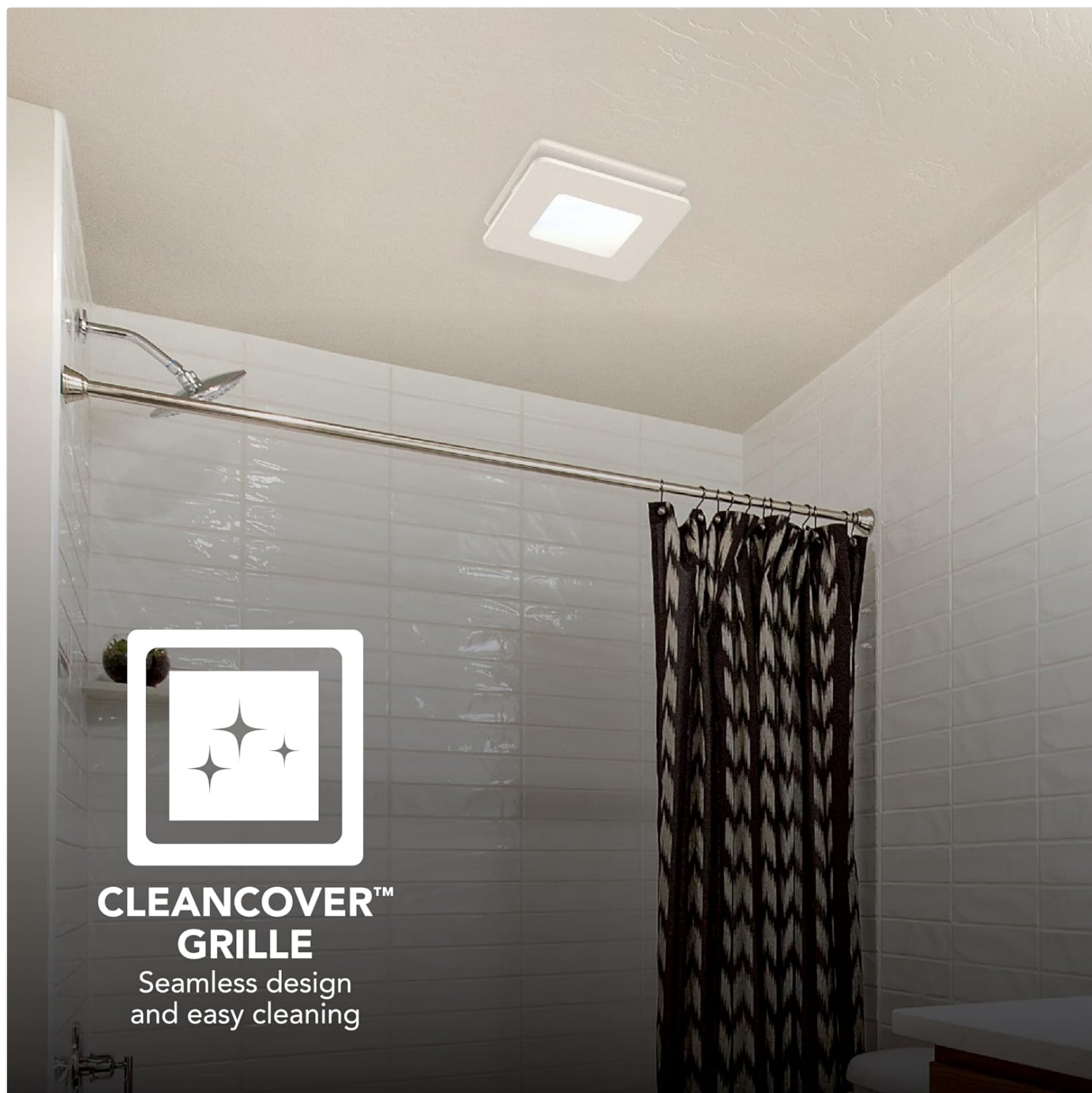


Figure 7.1: Broan-NuTone BEL6 fan dimensions.

8. WARRANTY INFORMATION

For detailed warranty information regarding your Broan-NuTone BEL6 Bathroom Exhaust Fan, please refer to the official warranty documentation included with your product packaging or visit the official Broan-NuTone website. Warranty terms and conditions may vary.

9. SUPPORT

For technical assistance, replacement parts, or customer service inquiries, please visit the official Broan-NuTone website or contact their customer support department directly. Contact information can typically be found on the manufacturer's website or in the product packaging.

Broan-NuTone Official Website: www.broan-nutone.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question