Broan-NuTone AE110LK

Broan-NuTone AE110LK Ventilation Fan with LED CleanCover and Roomside Installation

Model: AE110LK | Brand: Broan-NuTone

Product Overview

The Broan-NuTone AE110LK Ventilation Fan is an ENERGY STAR certified exhaust fan designed to provide efficient and quiet air movement in bathrooms up to 105 sq. ft. Featuring a modern LED CleanCover grille and innovative room-side installation, this fan offers superior performance and ease of use. It effectively reduces humidity and improves indoor air quality, ensuring a comfortable and healthy environment.



Figure 1: Broan-NuTone AE110LK Ventilation Fan with LED CleanCover.

Key Features

- **High-Performance Ventilation:** Operates at 110 CFM (Cubic Feet per Minute) with a quiet 1.0 Sones noise level, suitable for bathrooms up to 105 sq. ft.
- **Energy Efficiency:** ENERGY STAR certified, ensuring lower energy consumption and reduced utility costs.
- **Integrated LED Lighting:** Provides bright and efficient illumination for your bathroom.
- **CleanCover Grille:** Features a low-profile, streamline design with fewer vent slots, making it easier to clean and maintain.
- **Room-Side Installation:** Designed for hassle-free installation from the room side, eliminating the need for attic access, ideal for retrofit and remodel projects.
- **TrueSeal Damper Technology:** Reduces air leakage by up to 50% compared to competitive models, improving home performance and preventing cold/warm air backdrafts.
- **Flexible Mounting:** Includes SnapFit Flange Kit, EzDuct connector, and FoldAway mounting ears for versatile installation in various challenging spaces.
- **Safety Certifications:** UL listed for use over bathtubs or showers when connected to a GFCI-protected branch circuit (not included). UL listed for use in insulated ceilings (type I.C.) and HVI-2100 certified for safety.

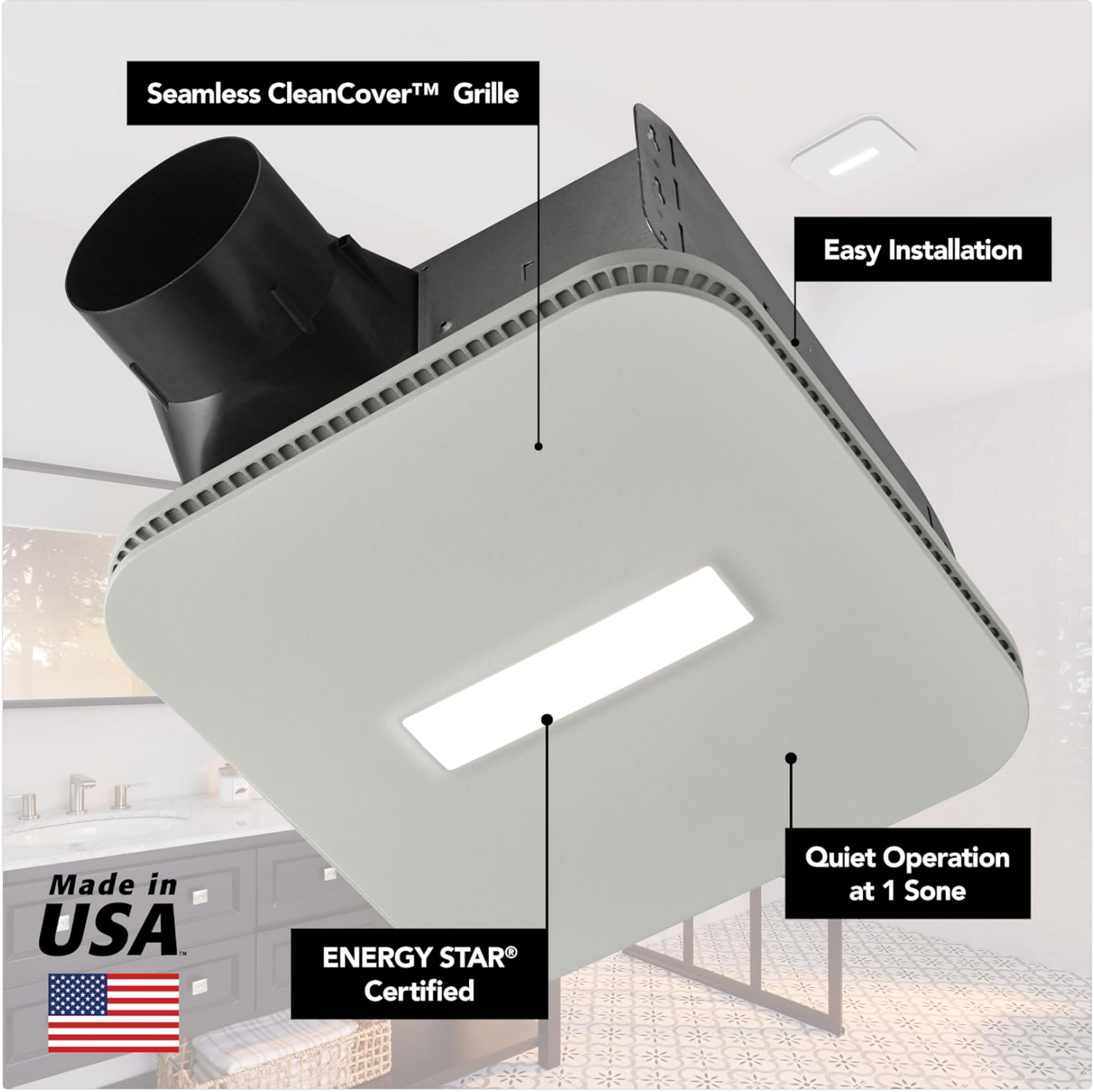


Figure 2: Key features of the AE110LK fan, including the CleanCover grille and quiet operation.



Figure 3: Illustration of the fan's powerful yet quiet ventilation.

Installation

The Broan-NuTone AE110LK is designed for straightforward room-side installation, making it an excellent choice for both new construction and renovation projects where attic access may be limited or unavailable.

Before You Begin

- Ensure power to the installation area is turned OFF at the circuit breaker.
- Verify that the installation location is suitable for the fan's dimensions (9.25" x 10" x 5.75" housing).
- Gather necessary tools: screwdriver, wire strippers, drill, measuring tape, utility knife, and safety glasses.
- For installations over bathtubs or showers, a GFCI-protected branch circuit is required.

Room-Side Installation Steps

1. **Prepare Opening:** Carefully cut an opening in the ceiling according to the provided template or housing dimensions.
2. **Connect Duct:** Attach the 4-inch duct connector to the fan housing. Ensure a secure and airtight connection.
3. **Mount Housing:** Utilize the SnapFit Flange Kit and FoldAway mounting ears to secure the fan housing to the ceiling joists or framing from below. The EzDuct connector simplifies duct attachment.
4. **Electrical Wiring:** Connect the electrical wiring according to local codes and the wiring diagram provided in the full manual. Ensure all connections are secure and insulated.
5. **Install Grille:** Attach the CleanCover grille with integrated LED light to the fan housing. Ensure it snaps securely into place.
6. **Test Operation:** Restore power and test the fan and light functions.



Figure 4: Demonstrating the ease of room-side installation.



Figure 5: Detailed dimensions and compliance markings.

Operation

The Broan-NuTone AE110LK Ventilation Fan is designed for simple operation via a standard wall switch.

- **Fan Activation:** Flip the designated wall switch to turn the ventilation fan ON. The fan will begin to extract moist air and odors from the room.
- **Light Activation:** If wired separately, flip the designated wall switch for the LED light to turn it ON or OFF.
- **Optimal Use:** For best results in moisture control, operate the fan during and after showering or bathing until humidity levels return to normal.

Maintenance

Regular maintenance ensures optimal performance and longevity of your Broan-NuTone AE110LK Ventilation Fan.

1. **Power Disconnection:** Always turn OFF power to the fan at the circuit breaker before performing any maintenance.
2. **Grille Cleaning:** The CleanCover grille is designed for easy cleaning. Gently pull down the grille to detach it from the housing. Wipe the grille with a damp cloth and mild detergent. Avoid abrasive cleaners.
3. **Fan Blade Cleaning:** With the grille removed, carefully wipe the fan blades and interior of the housing to remove dust and debris. A vacuum cleaner with a brush attachment can be used for hard-to-reach areas.
4. **Reassembly:** Once clean, reattach the grille by aligning it with the housing and pushing it firmly until it clicks into place.
5. **Frequency:** Clean the fan grille and interior at least once every six months, or more frequently in high-use environments.



Figure 6: The CleanCover grille's seamless design simplifies cleaning.

Troubleshooting

Problem	Possible Cause	Solution
Fan does not operate.	No power to the unit; Loose wiring; Motor failure.	Check circuit breaker/fuse. Ensure all wiring connections are secure. Contact qualified electrician if motor failure is suspected.
Light does not turn ON.	Loose wiring; LED module failure.	Check light switch and wiring connections. If LED module is integrated and faulty, contact customer support.
Excessive noise.	Loose grille; Debris in fan blades; Motor issues.	Ensure grille is securely fastened. Clean fan blades and housing. If noise persists, motor may require professional inspection.
Poor ventilation.	Blocked ductwork; Fan size inadequate for room; Dirty fan blades.	Check ductwork for obstructions. Ensure fan CFM matches room size (up to 105 sq. ft.). Clean fan blades.

Technical Specifications

Specification	Detail
Brand	Broan-NuTone
Model Number	AE110LK
Air Flow Capacity	110 CFM
Noise Level	1.0 Sones
Room Size (Max)	105 sq. ft.
Power Source	AC
Voltage	120.0 V
Wattage	23.4 watts
Product Dimensions (D x W x H)	12.25" x 12.25" x 5.75"
Housing Dimensions (approx.)	9.25" x 10" x 5.75"
Color	White
Light Type	Integrated LED
Certifications	ENERGY STAR, UL Listed (for insulated ceilings, over tubs/showers with GFCI), HVI-2100 Certified
Included Components	Non-Metallic Damper/Duct Connector, Integrated LED Module
Duct Size	4-inch round

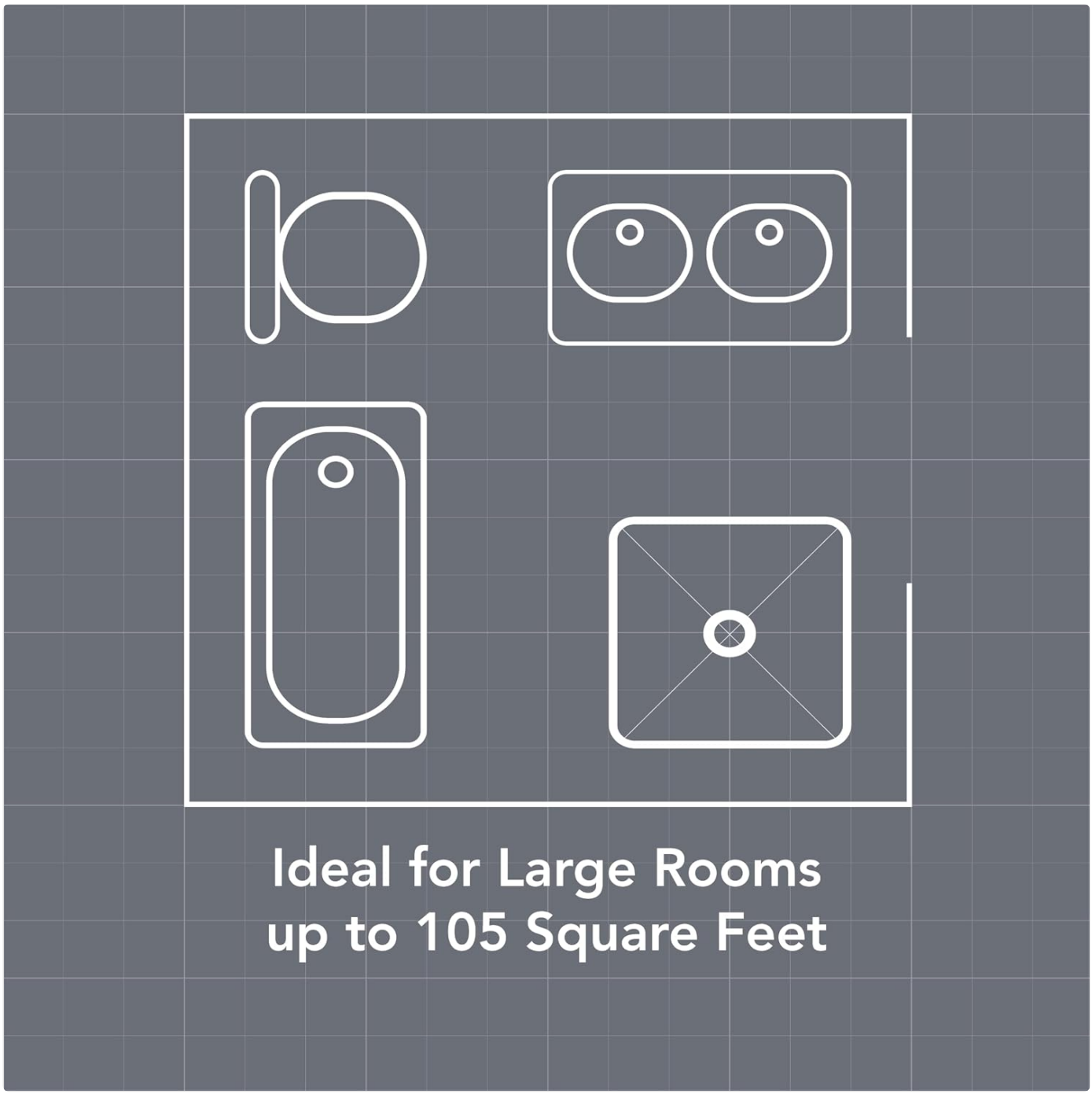


Figure 7: Recommended room size for optimal performance.

Warranty and Support

The Broan-NuTone AE110LK Ventilation Fan is backed by a **three-year limited warranty**, ensuring peace of mind regarding its quality and performance.

For technical assistance, warranty claims, or to purchase replacement parts, please contact Broan-NuTone Customer Service. Refer to the official Broan-NuTone website or the original packaging for the most current contact information. Additional resources, including a detailed installation manual, may be available for download from the manufacturer's website or via the provided link: Broan-NuTone AE110LK Installation Manual (PDF).

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

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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