

Broan-NuTone AER110CCTK

Broan-NuTone AER110CCTK CleanCover Bath Fan with Selectable CCT LED Light

Instruction Manual

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Broan-NuTone AER110CCTK CleanCover Bath Fan. This unit is designed to provide ventilation for bathrooms up to 105 square feet, featuring a 110 CFM airflow, a quiet 1.0 Sone sound rating, and an integrated LED light with selectable color temperature.

2. SAFETY INFORMATION

Please read and understand all instructions before beginning installation or operation. 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.
- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- This fan is UL listed for use over bathtubs or showers when connected to a GFCI-protected branch circuit.
- Ensure proper grounding of the unit.
- Do not use this fan in areas where flammable or explosive materials are present.

3. SETUP AND INSTALLATION

The Broan-NuTone AER110CCTK bath fan is designed for room-side installation, making it suitable for retrofitting, remodeling, and replacement, especially in spaces without attic access. The unit includes features such as a SnapFit Flange Kit, EzDuct connector, and FoldAway mounting ears to facilitate various installation scenarios.



Figure 3.1: Unit dimensions and certification logos. The housing measures 9-1/4 inches x 10 inches x 5-3/4 inches. The grille measures 12-1/4 inches x 12-1/4 inches. Certifications include HVI 2100 and ENERGY STAR.

3.1 Pre-Installation Check

- Verify that the ceiling opening is adequate for the fan housing (9-1/4" x 10").
- Ensure the ductwork is 4-inch diameter for optimal performance.
- Confirm power supply is 120V AC.

3.2 Installation Steps (Room-Side)

1. **Prepare Opening:** Use the provided template (often on the product box) to cut the ceiling opening to the correct size.
2. **Mount Housing:** Insert the fan housing into the ceiling opening. Utilize the FoldAway mounting ears to secure the housing to the ceiling joists or framing.
3. **Connect Duct:** Attach the 4-inch ductwork to the EzDuct connector on the fan housing. Ensure a secure and airtight connection.
4. **Wire Electrical:** Connect the electrical wiring (120V AC) to the fan's junction box according to local

codes. Ensure proper grounding.

5. **Install Grille:** Attach the CleanCover grille to the fan housing. The grille is designed for easy attachment and removal.

For detailed visual instructions, refer to the comprehensive installation guide included with your product or available on the Broan-NuTone website.

4. OPERATING INSTRUCTIONS

The Broan-NuTone AER110CCTK fan provides efficient ventilation and customizable lighting for your bathroom.



Figure 4.1: Key features of the AER110CCTK fan, including quiet operation, ENERGY STAR certification, selectable CCT LED light, and powerful ventilation.

4.1 Fan Operation

The fan operates at 110 Cubic Feet Per Minute (CFM), effectively ventilating rooms up to 105 square feet. It is designed for continuous operation and features a 1.0 Sone sound rating, indicating very quiet performance. The fan is activated via a standard wall switch (not included).

4.2 Selectable CCT LED Light

The integrated LED light offers four selectable color temperature (CCT) settings, allowing you to adjust the ambiance of your space. The available settings are:

- **3000K:** Warm White
- **3500K:** Bright White
- **4000K:** Cool White
- **5000K:** Daylight



Figure 4.2: Visual representation of the four selectable color temperature options: Soft White (3000K), Bright White (3500K), Cool White (4000K), and Daylight (5000K).

To change the CCT setting, toggle the light switch off and on. Each toggle will cycle through the available color temperatures. The fan automatically saves your last selected setting.

4.3 CleanCover Grille and TrueSeal Damper Technology

The CleanCover grille features a full perimeter air intake design, which helps reduce dust accumulation compared to traditional grilles. The TrueSeal Damper Technology minimizes air leakage by up to 50%, providing a tighter seal against backdrafts and improving energy efficiency.

Clean air. Clean cover. CCT lighting.



CCT LED light lets user select color temperature from warm to crisp white



Full perimeter air intake on the CleanCover™ grille reduces dust build-up



No drywall cutting or attic access needed



Figure 4.3: The CleanCover grille design with full perimeter air intake and the CCT LED light feature.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your bath fan.

5.1 Cleaning the Grille

1. Disconnect power to the fan at the service panel before cleaning.
2. Carefully remove the CleanCover grille from the fan housing.
3. Wash the grille by hand with mild soap and water. Avoid abrasive cleaners.
4. Rinse thoroughly and allow the grille to dry completely before reattaching.
5. Wipe down the fan housing interior with a damp cloth if necessary.
6. Reattach the grille and restore power.

5.2 Motor and Blower Maintenance

The motor is permanently lubricated and requires no additional oiling. Periodically inspect the blower wheel for dust and debris accumulation. If cleaning is required, disconnect power, remove the grille, and carefully clean the blower wheel with a soft brush or vacuum cleaner attachment. Do not bend or damage the

blower blades.

6. TROUBLESHOOTING

If you experience issues with your Broan-NuTone AER110CCTK fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not operate	No power supply; loose wiring; faulty switch; motor issue.	Check circuit breaker/fuse. Verify all wire connections. Test wall switch. If issues persist, consult a qualified electrician.
Fan is noisy	Loose mounting; debris in blower; damaged blower wheel; improper ducting.	Ensure fan housing is securely mounted. Disconnect power and clean blower wheel. Check ductwork for obstructions or kinks.
Light does not work	No power supply; loose wiring; faulty LED module.	Check circuit breaker/fuse. Verify wire connections to the light. If LED module is faulty, contact customer support for replacement.
Light color does not change	Incorrect toggling; internal light control issue.	Ensure you are toggling the switch off and on quickly to cycle through settings. If it still doesn't change, contact customer support.
Grille does not stay attached	Improperly engaged clips; damaged clips.	Ensure the grille clips are fully engaged into the housing. Inspect clips for damage.

If troubleshooting steps do not resolve the issue, contact Broan-NuTone customer support or a qualified service technician.

7. SPECIFICATIONS

Feature	Detail
Brand	Broan-NuTone
Model Name	AER110CCTK CleanCover Bath Fan, 110 CFM
Air Flow Capacity	110 Cubic Feet Per Minute (CFM)
Noise Level	1.0 Sones
Room Type	Bathroom (up to 105 sq. ft.)
Product Dimensions (Grille)	12.25"D x 12.25"W
Product Dimensions (Housing)	9.25"D x 10"W x 5.75"H
Power Source	AC
Voltage	120V
Switch Type	Push Button (for light CCT selection)

Feature	Detail
Control Method	Manual, Programmable, App (if compatible with external smart controls)
Special Feature	Selectable CCT LED Light (3000K, 3500K, 4000K, 5000K)
Specification Met	ENERGY STAR, UL Listed
Item Weight	8.78 pounds
UPC	026715267330

8. WARRANTY INFORMATION

The Broan-NuTone AER110CCTK CleanCover Bath Fan is backed by a **three-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the documentation included with your product or visit the official Broan-NuTone website.

9. SUPPORT

For technical assistance, replacement parts, or further information regarding your Broan-NuTone AER110CCTK bath fan, please contact Broan-NuTone customer support:

- **Website:** Visit the official Broan-NuTone website for FAQs, product manuals, and contact options.
- **Phone:** Refer to the contact information provided in your product packaging for direct customer service.