Broan-NuTone LP80

Broan-NuTone LP80 LoProfile Bath Ventilation Fan User Manual

Model: LP80 | Brand: Broan-NuTone

1. Product Overview

The Broan-NuTone LP80 LoProfile Bath Ventilation Fan is designed for efficient air movement in spaces where conventional ventilation units may not fit. This compact unit is suitable for installation between ceiling joists or wall studs, offering versatile placement options.

Key features include a permanently lubricated motor, a polymeric blower wheel for efficient performance, and a quiet 1.0 Sone rating. It is ENERGY STAR qualified, ensuring energy-efficient operation. The fan supports both 4-inch oval and 3-inch round duct connections for flexible installation.



Figure 1: Broan-NuTone LP80 LoProfile Bath Ventilation Fan with duct connection.

Product Highlights:

- **Compact Design:** Fits in 2-inch x 4-inch ceiling or wall construction, ideal for tight spaces.
- **Efficient Air Movement:** 80 CFM (Cubic Feet per Minute) suitable for rooms up to 75 sq. ft.
- **Quiet Operation:** Features a 1.0 Sone rating for minimal noise.
- **ENERGY STAR Qualified:** Ensures energy efficiency and lower utility bills.
- **Flexible Ducting:** Includes 4-inch oval and 3-inch round duct adapters.
- **Durable Construction:** Galvanized steel housing and polymeric grille.

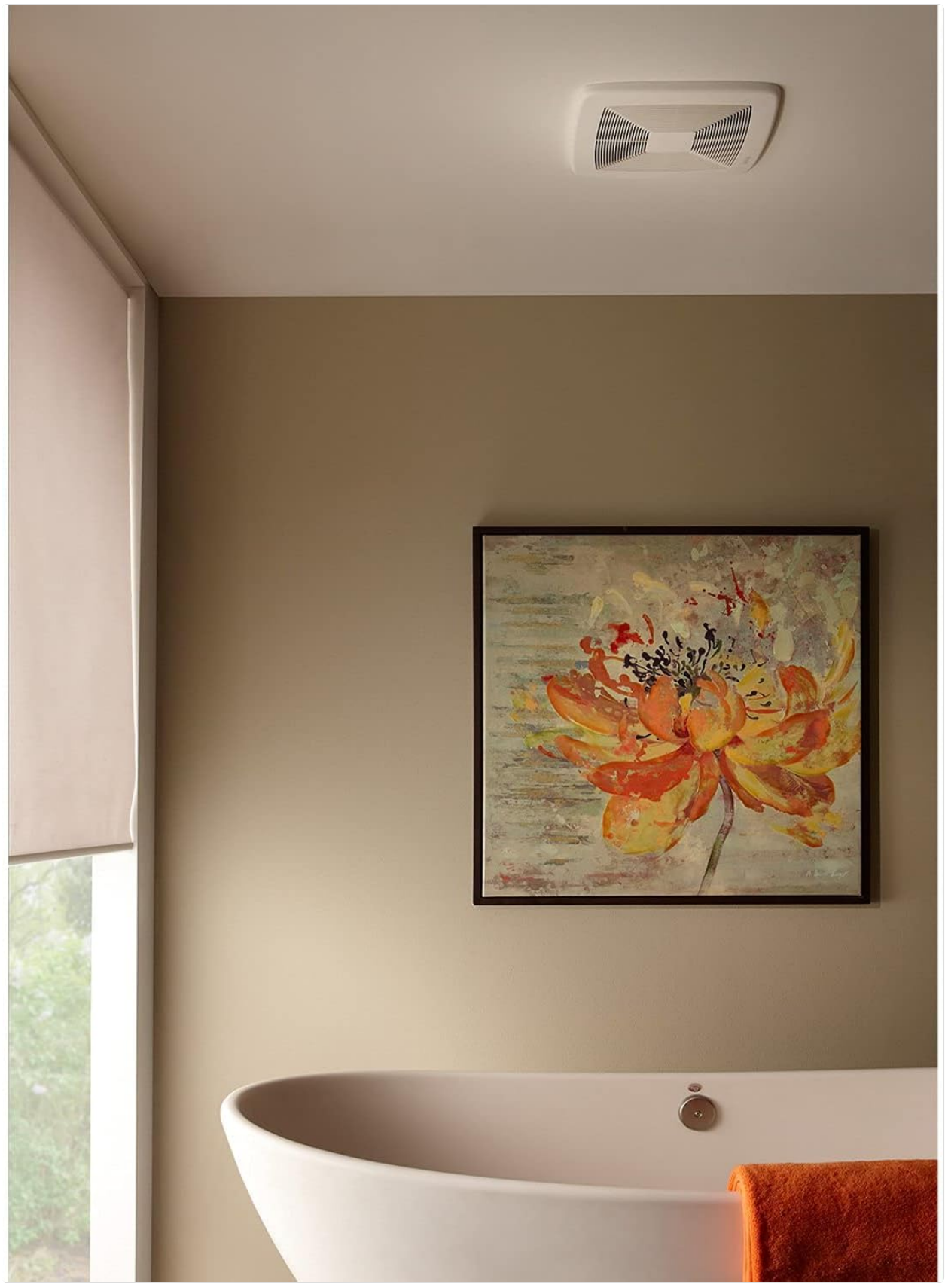


Figure 2: The LP80 fan seamlessly integrated into a bathroom ceiling.



Figure 3: Illustration of the fan's ventilation capabilities in various settings, including a garage and through an exterior wall.

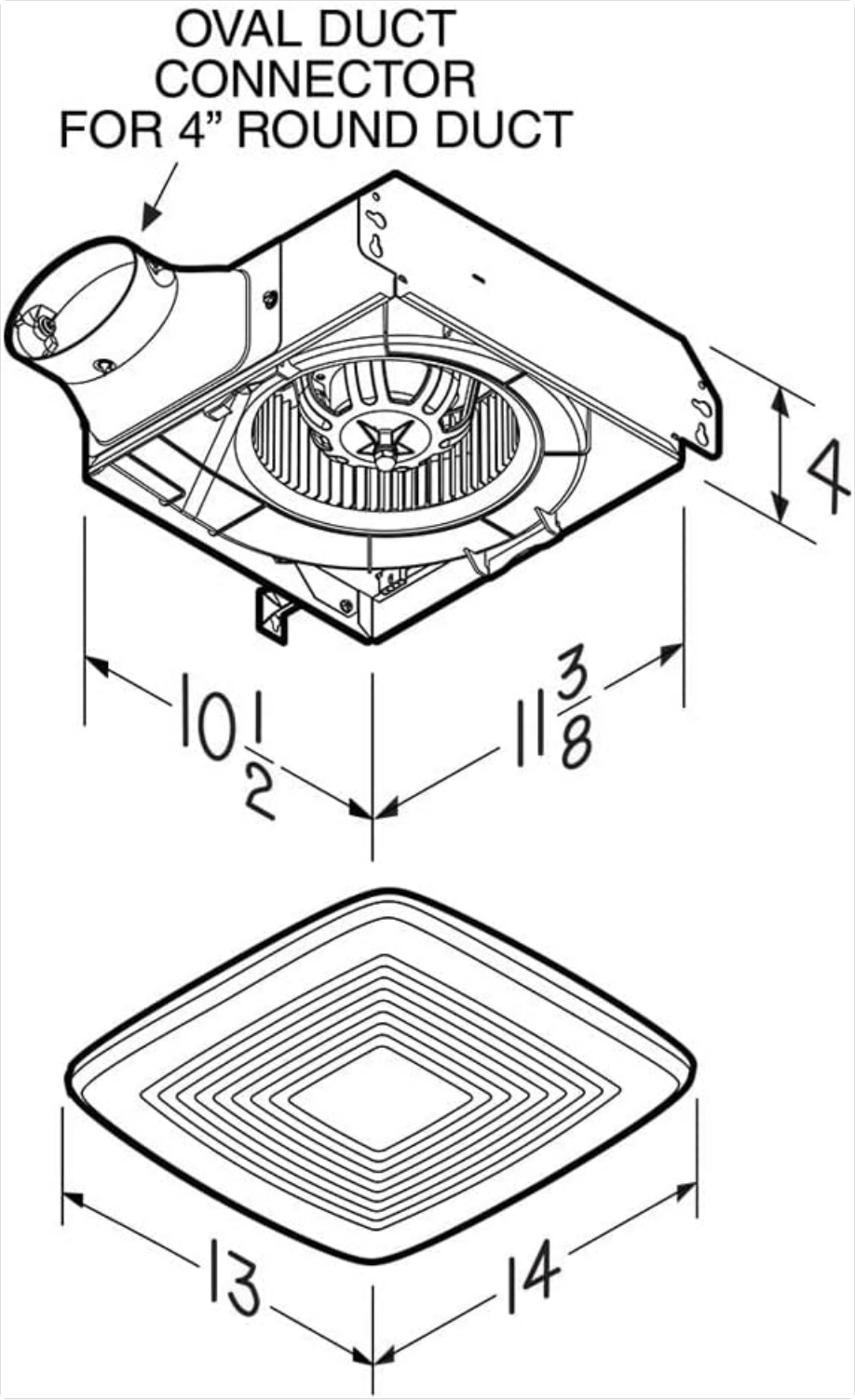


Figure 4: Detailed technical drawing showing the dimensions of the fan housing and the paintable grille cover.

2. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your Broan-NuTone LP80 fan. This unit is designed for installation in either ceiling or wall constructions, particularly where space is limited.

Before You Begin:

- **Consult the Installation Manual:** For detailed step-by-step instructions, wiring diagrams, and safety precautions, refer to the official Installation Manual. A PDF version is available here.

- **Verify Dimensions:** Ensure the fan's dimensions (10.5"D x 11.38"W x 4"H) are compatible with your intended installation space, especially if replacing an existing unit.
- **Safety First:** Always disconnect power at the circuit breaker before beginning any electrical work. If you are unsure about any steps, consult a qualified electrician.

General Installation Steps (Summary):

1. **Prepare the Opening:** Create an opening in the ceiling or wall that accommodates the fan housing. The unit fits between 2" x 4" studs.
2. **Mount the Housing:** Secure the fan housing to the joists or studs using the provided mounting ears and hanger bar.
3. **Connect Ductwork:** Attach the appropriate duct (4" oval or 3" round using the adapter) to the fan's exhaust port. Ensure all connections are sealed to prevent air leaks.
4. **Electrical Wiring:** Connect the fan's wiring to your household electrical system according to local codes and the manual's instructions.
5. **Install Grille:** Once the fan is securely mounted and wired, attach the white polymeric grille.

3. Operating Instructions

The Broan-NuTone LP80 fan is designed for straightforward operation, primarily controlled via a standard wall switch.

Turning the Fan On/Off:

- Locate the wall switch connected to the fan.
- Flip the switch to the "ON" position to activate the fan.
- Flip the switch to the "OFF" position to deactivate the fan.

Quiet Operation:

This model is known for its quiet performance, operating at a low 1.0 Sone rating. You may barely notice it running, which is a testament to its efficient design. Always ensure the fan is running when humidity or odors are present to maintain optimal indoor air quality.

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Video 1: An overview of the Broan Bath Ventilation Fans Product Line, showcasing various features and benefits of Broan-NuTone ventilation solutions.

4. Maintenance

Regular maintenance helps ensure your Broan-NuTone LP80 fan continues to operate efficiently and quietly. Always disconnect power before performing any maintenance.

Cleaning the Grille:

- Gently pull down the grille to disengage the mounting springs.

- Wash the grille with mild soap and water. Do not use abrasive cleaners.
- Rinse thoroughly and allow it to dry completely before reattaching.

Cleaning the Fan Housing and Blower Wheel:

- With the power off and grille removed, carefully wipe down the interior of the fan housing with a damp cloth.
- Use a vacuum cleaner with a brush attachment to remove dust and debris from the blower wheel and motor. Avoid using water directly on electrical components.
- The motor is permanently lubricated and does not require additional oiling.

Perform these cleaning tasks every 3-6 months, or more frequently in dusty environments, to maintain optimal airflow and prevent noise.

5. Troubleshooting

If your Broan-NuTone LP80 fan is not operating as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Fan does not operate	No power to the fan; tripped circuit breaker; loose wiring connection.	Check circuit breaker and wall switch. Verify electrical connections (consult an electrician if unsure).
Fan is noisy	Dirty blower wheel; loose mounting screws; obstruction in ductwork.	Clean blower wheel and grille. Ensure fan housing is securely mounted. Check ductwork for obstructions.
Poor airflow	Clogged grille or blower; restricted ductwork; incorrect duct size.	Clean grille and blower. Inspect ductwork for kinks or blockages. Ensure correct duct size is used (4" oval or 3" round).
Excessive vibration	Loose mounting; unbalanced blower wheel.	Tighten all mounting screws. Inspect blower wheel for damage or debris causing imbalance.

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

6. Specifications

Specification	Detail
Brand	Broan-NuTone
Model Name	LP80

Specification	Detail
Electric Fan Design	Exhaust Fan
Color	White
Style	80 CFM
Air Flow Capacity	80 Cubic Feet Per Minute (CFM)
Noise Level	1.0 Sones
Product Dimensions	10.5"D x 11.38"W x 4"H
Room Type	Bathroom, Garage
Power Source	AC
Voltage	120V
Wattage	25.7 watts
Material	Galvanized Steel Housing, Polymeric Blower Wheel, Polymeric Grille
Special Features	ENERGY STAR certification, UL listing for use over bathtubs and showers, LoProfile design
Certifications	ENERGY STAR, HVI Certified, UL Listed, Type IC
Duct Size Compatibility	4" Oval or 3" Round (adapter included)
Item Weight	8 Pounds

7. Warranty and Support

Warranty Information:

The Broan-NuTone LP80 Bath Ventilation Fan comes with a**1 Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For specific terms and conditions of the warranty, please refer to the documentation included with your product or visit the official Broan-NuTone website.

Customer Support:

For technical assistance, troubleshooting, or warranty claims, please contact Broan-NuTone customer support. You can typically find contact information on the manufacturer's website or in the product packaging.

When contacting support, please have your product model number (LP80) and purchase date available to expedite the process.

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