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› Tech Drive Bathroom Fan with LED Light (80 CFM, 2.0 Sone, 4000K, 600LM) Instruction Manual

Tech Drive TD-BF-09L

Tech Drive Bathroom Fan with LED Light (Model TD-BF-09L) Instruction Manual

1. INTRODUCTION

Thank you for choosing the Tech Drive Bathroom Fan with LED Light. This manual provides essential information for the safe installation, operation, and maintenance of your new ventilation fan. Please read these instructions thoroughly before installation and retain them for future reference.

This unit is designed to provide efficient ventilation and illumination for bathrooms up to 85 sq. ft., featuring a quiet 2.0 Sone operation, 80 CFM airflow, and an integrated 4000K 600LM LED light. Its design allows for installation without requiring attic access.



Figure 1.1: Tech Drive Bathroom Fan with LED Light (Model TD-BF-09L).

QUIET & EFFICIENT & BRIGHT



Figure 1.2: The fan's quiet operation (2.0 Sones), efficient airflow (80 CFM), and bright LED light (4000K 600LM) are key features.

2. SAFETY INFORMATION

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.
- Always disconnect power at the service panel before wiring or servicing the unit.
- This unit is UL and HVI certified, ensuring performance and safety standards are met.
- Acceptable for use over a bathtub or shower when connected to a GFCI-protected branch circuit.
- Do not use this fan with any solid-state speed control device.
- Duct work must be installed with a minimum number of turns and runs to ensure optimal airflow.
- Never place an object into the fan grille.

3. PACKAGE CONTENTS

Verify that all components listed below are included in your package. If any parts are missing or damaged, please contact Tech Drive customer support.

- Fan Housing Assembly
- LED Light Grille
- Mounting Screws (typically 4)
- Instruction Manual



Figure 3.1: Included components in the product package.

4. SPECIFICATIONS

Refer to the table below for detailed product specifications:

Feature	Specification
Model Name	TD-BF-09L
Air Flow Capacity	80 CFM (Cubic Feet Per Minute)
Noise Level	2.0 Sones
LED Light Output	600 Lumens
LED Color Temperature	4000K
Wattage	22 Watts
Voltage	120 Volts

Feature	Specification
Housing Dimensions (D x W x H)	7.5" x 7.25" x 6"
Ceiling Mounting Opening	7.6" x 7.3"
LED Grille Size	8.67" x 8.67"
Duct Size	4 inches
Control Method	Touch (via wall switch, not included)
Certifications	UL, HVI Certified

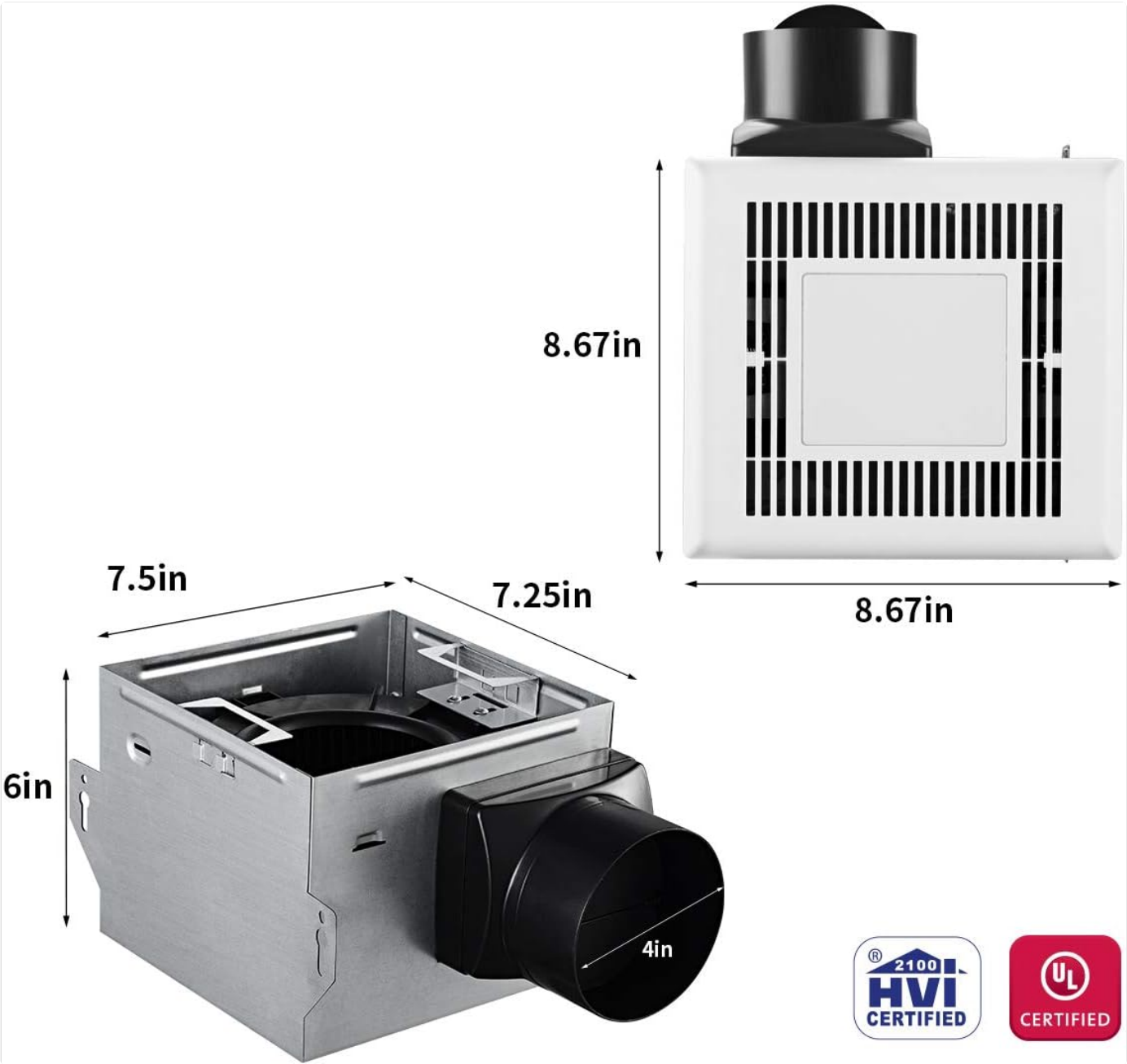


Figure 4.1: Detailed dimensions of the fan unit and grille.

5. INSTALLATION

This fan is designed for easy installation without the need for attic access, making it suitable for existing construction. Installation can be performed entirely from the room-side of the ceiling.

5.1 Pre-Installation Considerations

- Ensure the power supply is disconnected at the circuit breaker before beginning installation.
- Verify that the ceiling opening dimensions (7.6" x 7.3") are appropriate for your installation. If replacing an older fan, confirm that the existing opening and ceiling depth (minimum 6 inches for housing height) are compatible.
- Prepare a 4-inch duct for connection to the fan's exhaust port.



No Attic Access Installation

For existing construction, Installation can be done from rooms.

Figure 5.1: The fan can be installed from the room side, eliminating the need for attic access.

5.2 Installation Steps (Room-Side)

1. **Prepare Ceiling Opening:** If replacing an old fan, remove it. Ensure the ceiling opening matches the required 7.6" x 7.3" dimensions.
2. **Connect Ducting:** Attach the 4-inch duct to the fan's exhaust port. Secure it with a clamp (not included) to ensure an airtight seal.
3. **Electrical Connection:** Open the wiring compartment cover on the fan housing. Connect the household wiring to the fan's wiring (black to black, white to white, green/bare to ground) using appropriate wire connectors. Ensure all connections are secure.
4. **Mount Fan Housing:** Insert the fan housing into the ceiling opening. The housing features mounting tabs that can be secured to a ceiling joist using the provided screws. For existing openings, the fan is designed to fit without cutting the housing.
5. **Attach Grille:** Connect the LED light wire from the grille to the receptacle inside the fan housing. Secure the grille to the fan housing using the spring clips. Gently push the grille up until it sits flush against the ceiling.

4 in Ducting To Outside Conductos al exterior de 10,16 cm

No-Cut Easy Installation
Replaces Most Compact Fans
Using Existing Opening
De fácil instalación sin necesidad
de cortar; reemplaza casi todos
los ventiladores compactos usando
la abertura existente

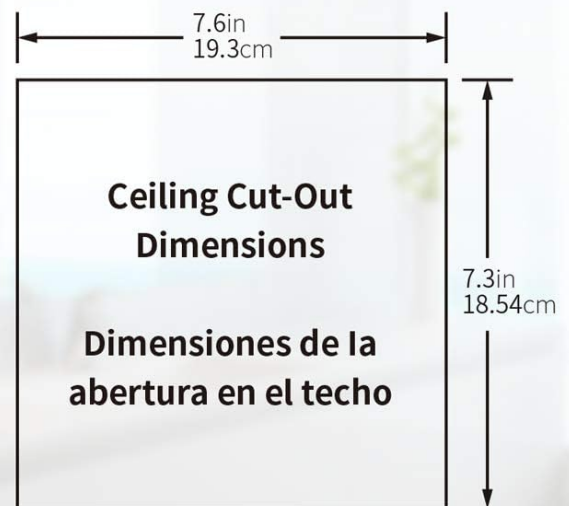
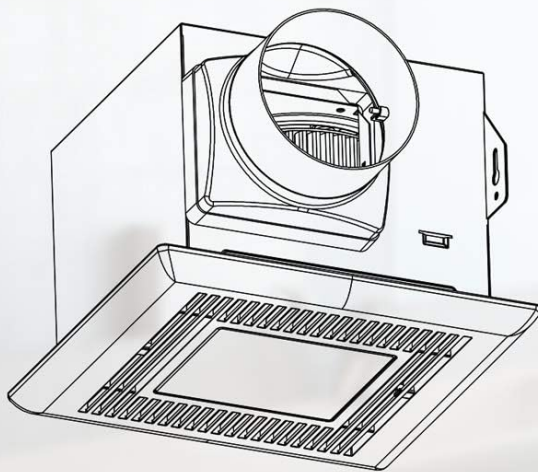


Figure 5.2: The fan requires a 4-inch duct for proper ventilation to the outside.



Figure 5.3: Internal wiring and LED light connection point.

6. OPERATION

The Tech Drive Bathroom Fan with LED Light operates via a standard wall switch (not included). It is recommended to use a single-pole switch for basic on/off control of both the fan and light simultaneously, or a dual-function switch if separate control is desired (requires additional wiring).

- **Fan Function:** Activates the 80 CFM exhaust fan to remove moisture and odors from the bathroom.
- **LED Light Function:** Provides 600 Lumens of 4000K bright white illumination.

LED light 4000K 600LM



Figure 6.1: The integrated LED light provides 4000K color temperature and 600 Lumens of brightness.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your fan. Always disconnect power at the service panel before performing any maintenance.

7.1 Cleaning the Grille and Fan Housing

1. Turn off power to the fan at the circuit breaker.
2. Gently pull down the grille to disengage the spring clips. Disconnect the LED light wire.
3. Wash the grille in warm soapy water, rinse, and dry thoroughly.
4. Wipe the fan housing and motor assembly with a damp cloth. Do not allow water to enter the motor.
5. Reconnect the LED light wire and reattach the grille by pushing it up until the spring clips engage.

7.2 Motor Lubrication

The fan motor is permanently lubricated and requires no additional oiling.

8. TROUBLESHOOTING

If you experience issues with your Tech Drive Bathroom Fan, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan does not operate / Light does not turn on	No power supply Loose wiring connection Faulty wall switch	Check circuit breaker and wall switch. Ensure all electrical connections are secure (power off first). Test wall switch.
Fan operates, but light does not turn on	Loose LED light connection Faulty LED module	Ensure LED light wire is securely connected to the receptacle. Contact customer support if LED module is faulty.
Fan is noisy or vibrates excessively	Loose mounting screws Obstruction in fan blades Ducting issues (too restrictive, loose)	Check and tighten mounting screws. Turn off power and inspect fan blades for obstructions. Verify ducting is properly installed and free of kinks.
Poor air movement	Restricted ducting Dirty fan blades/grille Improper fan size for room	Check ducting for obstructions or kinks. Clean fan blades and grille as per maintenance section. Ensure fan CFM is appropriate for room size.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product at the time of purchase or visit the official Tech Drive website. If you require technical assistance or have questions regarding your Tech Drive Bathroom Fan, please contact Tech Drive customer support.

Tech Drive Customer Support: Please refer to the contact information provided on the product packaging or the official Tech Drive website.

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

you@example.com

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