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› Tech Drive Bathroom Fan with Light (50 CFM, 1.0 Sone, Model TD-BF-14L) Instruction Manual

Tech Drive TD-BF-14L

Tech Drive Bathroom Fan with Light (50 CFM, 1.0 Sone, Model TD-BF-14L) Instruction Manual

Model: TD-BF-14L

1. INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of your Tech Drive Bathroom Fan with Light, Model TD-BF-14L. This unit is designed for efficient ventilation in bathrooms up to 50 sq. ft., featuring a quiet 1.0 Sone operation and an integrated 4000K LED light.



Image 1.1: Tech Drive Bathroom Fan with Light, Model TD-BF-14L.

2. SAFETY INFORMATION

WARNING: To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Read all instructions before installing or servicing this fan.
- Always disconnect power at the service panel before wiring or servicing.
- 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.
- This unit is 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.
- Ensure the fan is properly grounded.
- Do not install in a cooking area.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Fan Housing

- Grille with Integrated LED Light
- Screws
- Installation Manual (this document)



Image 3.1: Contents of the product package.

4. SPECIFICATIONS

Feature	Specification
Brand	Tech Drive
Model Name	Tech Drive Bathroom Fan (TD-BF-14L)
Air Flow Capacity	50 Cubic Feet Per Minute (CFM)
Noise Level	1.0 Sones
LED Light	11W, 4000K, 600 Lumens
Housing Dimensions (D x W x H)	7.5" x 7.25" x 6"
Ceiling Mounting Opening	7.6" x 7.3"
Duct Size	4 inches
Power Source	AC, 120 Volts
Installation Type	No attic access needed
Certifications	UL and HVI certified

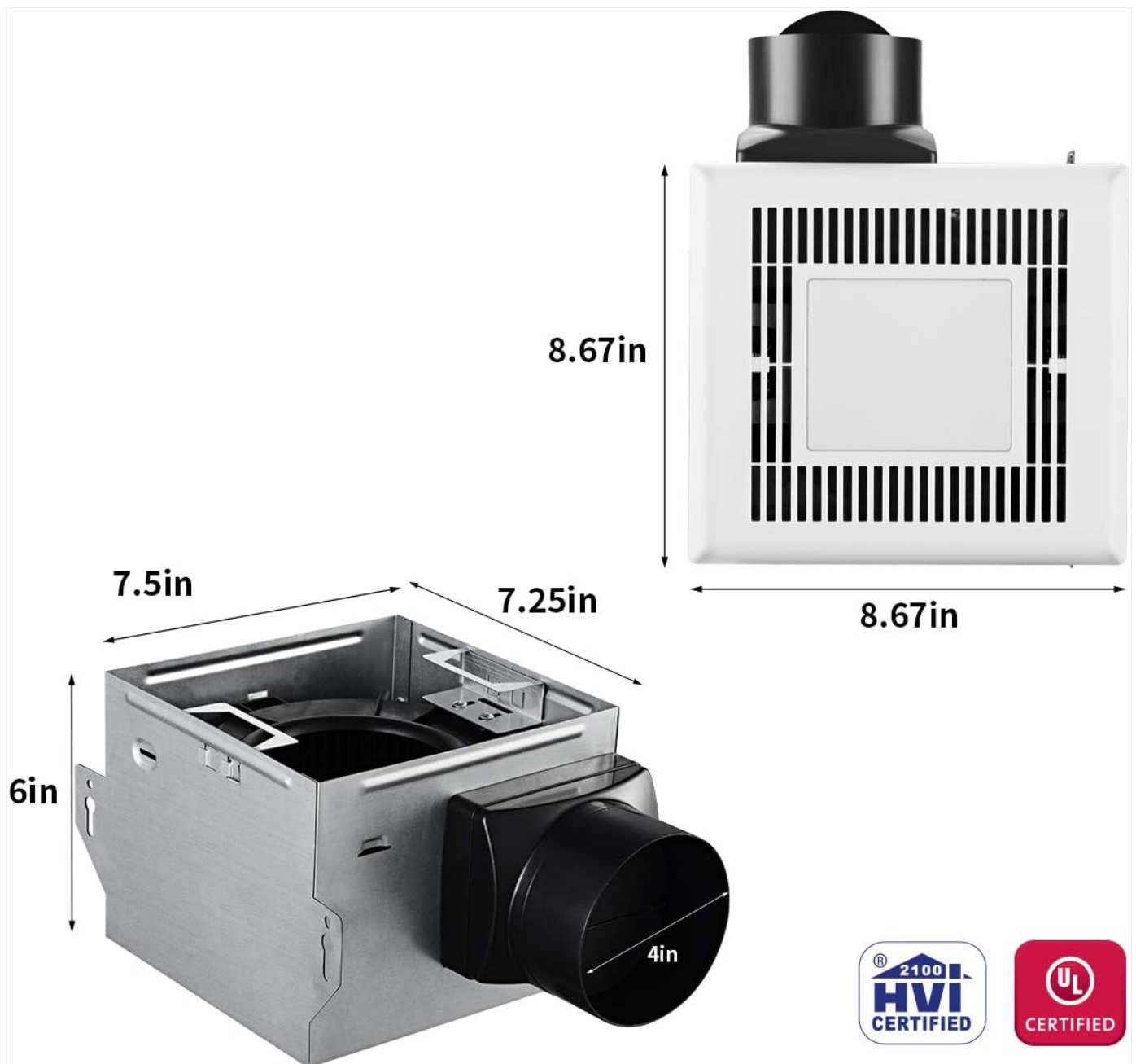


Image 4.1: Product dimensions and certifications.

5. INSTALLATION INSTRUCTIONS

This fan is designed for installation from the room-side, eliminating the need for attic access. Ensure power is disconnected before starting.

5.1. Prepare Ceiling Opening

1. Identify the desired location for the fan.
2. Cut a ceiling opening of approximately 7.6 inches by 7.3 inches. Ensure this opening is suitable for the fan housing dimensions (7.5"D x 7.25"W x 6"H).

Refer to the installation video below for visual guidance on preparing the ceiling opening.

5.2. Remove Fan Assembly and Driver

1. Carefully remove the fan assembly and LED driver from the fan housing. This provides easier access for wiring and mounting.

5.3. Wiring

1. Route the electrical wiring into the fan housing's junction box.
2. Connect the fan's white wire to the house white wire (neutral).
3. Connect the fan's black wire to the house black wire (hot for fan).
4. Connect the light's white wire to the house white wire (neutral).
5. Connect the light's black wire to the house black wire (hot for light).
6. Connect the green ground wire from the fan to the house ground wire.
7. Secure all connections with wire nuts.
8. **Note:** The fan and light can be operated independently if wired to separate switches.

5.4. Install Duct

1. Connect the 4-inch ductwork to the fan's duct connector.
2. Secure the duct connection using an end seal or a 4-inch duct clamp (not included).

5.5. Mount Fan Housing

1. Insert the fan housing into the ceiling opening.
2. Secure the fan housing to a ceiling joist using the provided screws. Ensure the housing is firmly attached.



Image 5.1: Fan housing installation from below the ceiling.

5.6. Reattach Fan Assembly and Driver

1. Once the housing is secured and wired, reattach the fan assembly and LED driver into the housing.

5.7. Install Grille

1. Connect the LED light wire from the grille to the corresponding connector inside the housing.
2. Carefully push the grille into the housing until the mounting springs secure it flush with the ceiling.

LED light 4000K 600LM



Image 5.2: Integrated LED light on the fan grille.

5.8. Installation Video Guide

For a visual step-by-step guide, please watch the official installation video:

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Video 5.1: Official Tech Drive installation guide for the bathroom fan with LED light. This video demonstrates the process of preparing the ceiling opening, wiring, duct installation, mounting the housing, and attaching the grille.

6. OPERATING INSTRUCTIONS

Once installed and power is restored, the Tech Drive Bathroom Fan with Light can be operated via standard wall switches. If wired independently, the fan and light can be controlled separately.

- **Fan Operation:** Flip the designated wall switch to turn the ventilation fan ON or OFF. The fan will quietly remove moisture and odors from the bathroom.
- **Light Operation:** Flip the designated wall switch to turn the integrated LED light ON or OFF. The 4000K, 600 Lumen light provides bright, neutral illumination.



Image 6.1: The fan operating quietly and efficiently in a bathroom setting.

7. MAINTENANCE

Regular cleaning and maintenance will ensure optimal performance and longevity of your fan.

- **WARNING:** Ensure power is disconnected at the service panel before performing any maintenance.
- **Grille Cleaning:** The grille can be removed by gently pulling down on it. Wash the grille with mild soap and water, rinse thoroughly, and dry completely before reattaching.
- **Fan Blade Cleaning:** With the grille removed, carefully wipe the fan blades and interior of the housing with a damp cloth. Do not allow water to enter the motor or electrical components.
- **Motor:** The motor is permanently lubricated and requires no additional oiling.
- **LED Light:** The LED module is integrated and not user-serviceable. If the light fails, the entire grille assembly may need replacement.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fan does not operate	No power to the unit; loose wiring; faulty switch.	Check circuit breaker/fuse. Verify all wire connections are secure. Test the wall switch.
Light does not illuminate	No power to the light; loose wiring; faulty switch; LED module failure.	Check circuit breaker/fuse. Verify light wire connections. Test the wall switch. Contact customer support if LED module is suspected faulty.
Fan is noisy	Loose mounting screws; debris in fan blades; duct obstruction.	Ensure housing is securely mounted. Disconnect power and clean fan blades. Check ductwork for obstructions.

Poor ventilation	Duct obstruction; fan blades dirty; fan size inadequate for room.	Check ductwork for obstructions. Clean fan blades. Ensure the fan's CFM rating is appropriate for your bathroom size.
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9. WARRANTY AND SUPPORT

For specific warranty details and customer support, please refer to the warranty card included with your product or visit the official Tech Drive website. Keep your purchase receipt for warranty claims.

Contact Information:

- **Brand:** Tech Drive
- **Website:** [Tech Drive Store on Amazon](#) (for general inquiries)
- Refer to product packaging or included documentation for direct customer service contact details.

