

Akicon BPT16-14EL-L12

Akicon BPT16-14EL-L12 Bathroom Exhaust Fan with LED Light User Manual

Model: BPT16-14EL-L12

INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Akicon BPT16-14EL-L12 Bathroom Exhaust Fan with LED Light. Please read these instructions thoroughly before installation and use, and retain them for future reference.

The Akicon BPT16-14EL-L12 exhaust fan is designed to effectively remove moisture and odors from bathrooms and similar indoor spaces up to 85 square feet. It features a quiet operation at 1.5 sones and an integrated 12W LED light for illumination.



Image Description: A front-side view of the Akicon BPT16-14EL-L12 bathroom exhaust fan, showcasing its white grille cover with integrated LED light and the metal housing with a black duct connector.

SAFETY INFORMATION

WARNING: 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 HVI-certified and cUL listed for use over bathtubs and showers when connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.
- Do not use this fan with any solid-state speed control device.
- Never place any object into the fan blades.
- Ensure the fan is properly grounded.
- Duct work must be installed with a minimum number of turns and runs to ensure optimal airflow.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Exhaust Fan Housing Assembly
- Grille Cover with Integrated LED Light

- 12W E26 Base LED Bulb (pre-installed or separate)
- Installation Hardware (screws, wire connectors)
- User Manual (this document)

SPECIFICATIONS

Feature	Specification
Brand	Akicon
Model Number	BPT16-14EL-L12
Air Flow Capacity	90 Cubic Feet Per Minute (CFM)
Noise Level	1.5 Sones
Power Source	AC
Voltage	120 Volts
LED Light Wattage	12 Watts
LED Light Color Temperature	5000K (Cool White)
Housing Dimensions (L x W x H)	9-3/8" x 9-3/8" x 7-5/16"
Grille Cover Size	11" x 11"
Duct Size	4 inch round
Recommended Room Size	Up to 85 sq. ft.
Certifications	HVI, cUL Listed
Item Weight	8.83 pounds

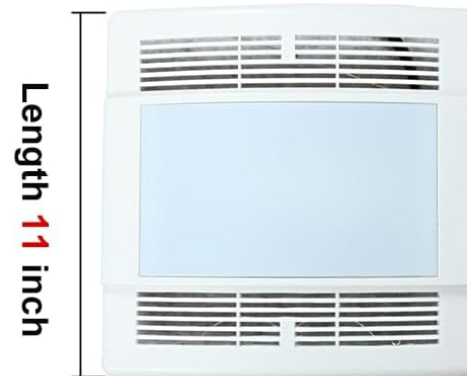
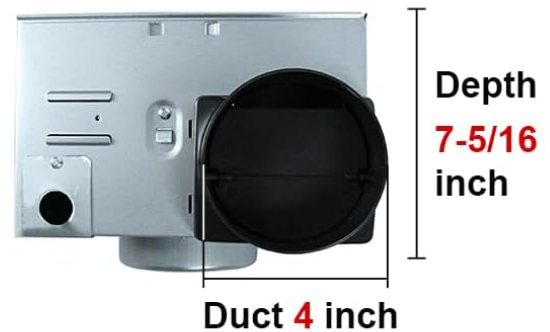
SETUP AND INSTALLATION

This section outlines the general steps for installing the Akicon BPT16-14EL-L12 exhaust fan. For detailed diagrams and specific instructions, refer to the included installation guide or consult a qualified electrician.

1. Pre-Installation Considerations

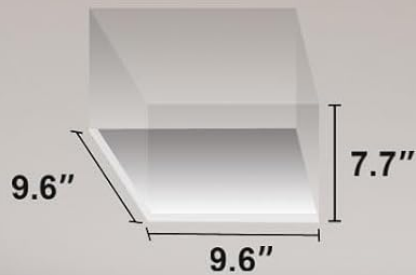
- **Measure Room Size:** Ensure the fan's 90 CFM capacity is suitable for your room (up to 85 sq. ft.).
- **Ceiling Opening:** The recommended ceiling opening size is approximately 9-7/8" x 9-7/8". If replacing an existing fan, measure the current opening. If the existing opening is smaller, it will need to be enlarged to accommodate the new housing.
- **Ducting:** Plan for a 4-inch round duct connection. Use rigid metal ducting for best performance.
- **Electrical Wiring:** Ensure a 120V AC power supply is available. The fan and light can be wired to operate jointly or separately via wall switches.

 **Please notice the installation size before purchasing.**



Housing Size: 9-3/8"x9-3/8"x7-5/16"
Grille Cover Size: 11"x11"
Ceiling Opening Size: 9-7/8"x9-7/8"

Image Description: This image displays the critical dimensions for installation. It shows the fan housing size as 9-3/8" x 9-3/8" x 7-5/16", the grille cover size as 11" x 11", and the recommended ceiling opening size as 9-7/8" x 9-7/8". This helps ensure proper fit during installation.



AKICON[®]

Installation Notice!

Housing : Length x Width x Height
(9.4" x 9.4" x 7.7")

Opening hole size is based on the housing size.

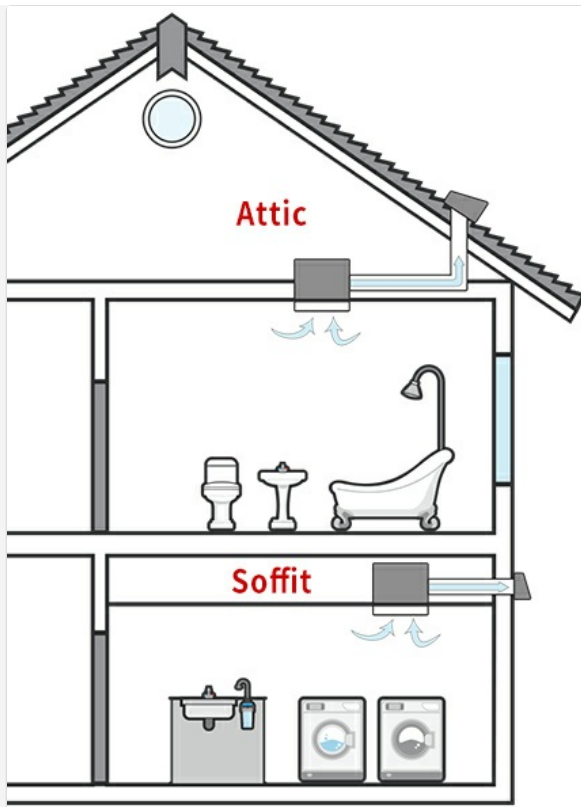
For replacement, Please check your existing opening size. If the older hole smaller, please cut the hole follow the new housing size. Order the new bathroom fan based on the workable opening measurements.



Image Description: An installation notice highlighting the housing dimensions (9.4" x 9.4" x 7.7") and emphasizing that the opening hole size should be based on the housing size. It advises checking existing opening sizes for replacements and cutting the hole to match the new housing if necessary.

2. Mounting the Fan Housing

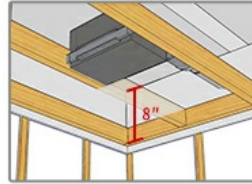
- Turn off power at the circuit breaker.
- Cut the ceiling opening to the specified dimensions (approx. 9-7/8" x 9-7/8").
- Secure the fan housing to ceiling joists using appropriate fasteners. The housing is designed for screw-in installation. Ensure it is firmly attached to prevent vibration and noise.



Your first consideration
is size bath fans are rated by CFM.

MEASURE BATHROOM in(ft)
 $\text{WIDTH} \times \text{LENGTH} \times \text{HEIGHT} \times 0.13$
 = Minimum CFM needed

Next, you'll choose the installation type
either standard or inline.



Soffit/Attic Height > 8"



Opening Size 9-7/8" x 9-7/8"

Finally you'll choose which optional
features you want.



Image Description: This diagram shows two common installation scenarios: attic and soffit. It illustrates how the fan can be ducted to exhaust air outside, emphasizing the importance of proper ducting for effective ventilation.

3. Duct Connection

- Connect a 4-inch round duct to the fan's exhaust collar. Secure with duct tape or clamps.
- Route the duct to an exterior vent cap, ensuring minimal bends and a slight downward slope away from the fan to prevent condensation buildup.



Image Description: A comprehensive installation diagram showing the fan housing, duct connection, and electrical wiring points. It provides a visual guide for the step-by-step installation process within a ceiling.

4. Electrical Wiring

- Open the wiring compartment on the fan housing.
- Connect the household wiring to the fan's wiring according to local electrical codes. The fan and light have separate wires, allowing for independent operation if desired (e.g., separate wall switches for fan and light).
- Ensure all connections are secure and properly insulated. Close the wiring compartment cover.

5. Install Grille Cover

- If the LED bulb is not pre-installed, screw the 12W E26 base LED bulb into the socket.
- Attach the grille cover to the fan housing. Typically, this involves inserting mounting springs into slots in the housing and pushing the grille firmly against the ceiling.

Once installation is complete, restore power at the circuit breaker and test the fan and light functions.

OPERATING INSTRUCTIONS

The Akicon BPT16-14EL-L12 exhaust fan and LED light are designed for simple operation via standard wall switches.

- **Fan Operation:** Flip the designated wall switch to turn the exhaust fan ON or OFF.
- **Light Operation:** Flip the designated wall switch to turn the LED light ON or OFF.
- If wired separately, the fan and light can be controlled independently. If wired jointly, both will activate simultaneously.

For optimal moisture and odor removal, operate the fan during and after showering or bathing for at least 15-20 minutes.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your exhaust fan. Always disconnect power at the circuit breaker before performing any maintenance.

1. Cleaning the Grille Cover

- Gently pull down the grille cover to detach it from the housing springs.
- Wash the grille cover with mild soap and water. Rinse thoroughly and dry completely before reattaching.



Image Description: A detailed view of the fan's white grille cover, showing the ventilation slots and the central LED light panel. This component is easily removable for cleaning.

2. Cleaning the Fan Interior

- With the grille removed and power off, carefully wipe down the fan blades and interior of the housing with a damp cloth.
- Do not allow water to enter the motor or electrical components.
- Ensure all parts are dry before restoring power.

3. LED Bulb Replacement

- Ensure power is off.
- Remove the grille cover.
- Unscrew the old E26 base LED bulb and replace it with a new 12W E26 base LED bulb.
- Reattach the grille cover and restore power.

TROUBLESHOOTING

If you encounter issues with your Akicon exhaust fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not operate / Light does not turn on	No power supply; Loose wiring; Faulty switch; Blown fuse/tripped breaker	Check power at the circuit breaker. Ensure all wiring connections are secure. Test the wall switch. Replace fuse or reset breaker.
Fan is excessively noisy	Loose mounting; Obstruction in fan blades; Dirty fan blades/motor; Improper ducting	Ensure fan housing is securely mounted. Disconnect power and check for obstructions. Clean fan blades and motor. Inspect ductwork for kinks or blockages.
Poor ventilation performance	Ducting issues (too long, too many bends, wrong size); Blocked exterior vent; Room size exceeds fan capacity	Inspect ductwork for proper installation and clear any blockages. Ensure exterior vent is clear. Verify fan CFM matches room size.
LED light flickers or is dim	Loose bulb; Faulty bulb; Wiring issue	Ensure bulb is screwed in tightly. Replace the LED bulb. Check electrical connections to the light.

If the problem persists after attempting these solutions, please contact Akicon customer support.

WARRANTY INFORMATION

The Akicon BPT16-14EL-L12 Bathroom Exhaust Fan with LED Light comes with a **3-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage resulting from improper installation, misuse, abuse, accident, neglect, or unauthorized repair or modification. Proof of purchase is required for all warranty claims.





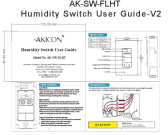
CUSTOMER SUPPORT

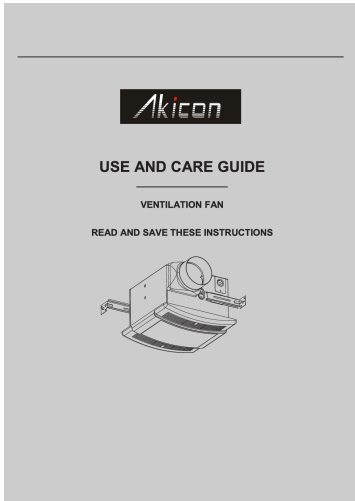
For any questions, technical assistance, or warranty claims, please contact Akicon customer service. Have your model number (BPT16-14EL-L12) and proof of purchase ready when contacting support.

Contact information can typically be found on the Akicon official website or through your purchase platform.

© 2023 Akicon. All rights reserved.

Related Documents - BPT16-14EL-L12

	<p>AKICON 110 CFM Bathroom Exhaust Fan with RGB LED, Humidity Sensor, 3CCT & Night Light - Use and Care Guide</p> <p>Comprehensive use and care guide for the AKICON 110 CFM Bathroom Exhaust Fan, featuring RGB LED mode, humidity sensor, 3CCT, and night light. Includes installation instructions for new and existing construction, troubleshooting, and maintenance.</p>
	<p>AKICON 110 CFM Bathroom Exhaust Fan with RGB LED, Humidity Sensor, 3CCT, and Night Light - Use and Care Guide</p> <p>Comprehensive use and care guide for the AKICON 110 CFM Bathroom Exhaust Fan, featuring RGB LED mode, humidity sensor, 3CCT color temperature, and night light. Includes installation instructions, safety information, troubleshooting, and warranty details.</p>
	<p>AKICON BPT14-80CL Bathroom Ventilation Fan with Light Use and Care Guide</p> <p>Comprehensive use and care guide for the AKICON BPT14-80CL Bathroom Ventilation Fan with Light, detailing product specifications, installation, maintenance, troubleshooting, and warranty information.</p>
	<p>AKICON AK1390N2-W/B/S Bathroom Ventilation Fan with Light Use and Care Guide</p> <p>Comprehensive use and care guide for the AKICON AK1390N2-W/B/S bathroom ventilation fan with LED light. Includes installation instructions, safety information, maintenance, troubleshooting, and warranty details.</p>
	<p>AK-SW-FLHT Humidity Switch User Guide</p> <p>User guide for the AKICON AK-SW-FLHT Humidity Switch, detailing specifications, setup, operation modes, and wiring instructions for controlling fans and lights based on humidity levels.</p>

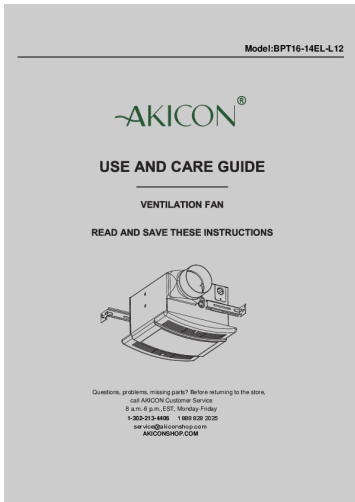


[\[pdf\]](#) User Manual Installation Guide Instructions

Akicon AK161490 Use and Care Manual Bathroom fan with lights 1 5 Sone 90 CFM White Decorative Lighted Fan ENERGY STAR 850017861008 42598945 lowes productdocuments c862a372 ec84 4f13 a45b 6ce58855a257 |||

Model:**BPT16-14EL-L12** Questions, problems, missing parts Before returning to the store, call AKICON Customer Service 8 a.m.-6 p.m.,EST, Monday-Friday 1-302-213-4406 1-302-526-0542 AKICONSHOP.COM **BPT16-14EL-L12** 9. To reduce risk of fire and to properly exhaust air, be sure to duct air outside. 10. ...

lang:en score:53 filesize: 12.35 M page_count: 12 document date: 2013-11-14



[\[pdf\]](#) Instructions Specifications Warranty Catalog

Model BPT16 14EL L12For your safety and to ensure proper performance of the unit it is very important read these instructions carefully before installationd19d05c4 acf9 425e 90c0 bd7a7b4955a3images thdstatic catalog Images d1 d19d05c4 bd7a7b4955a3 |||

Model:**BPT16-14EL-L12** Questions, problems, missing parts Before returning to the store, call AKICON Customer Service 8 a.m.-6 p.m.,EST, Monday-Friday 1-302-213-4406 1 888 828 2025 service akiconshop.com AKICONSHOP.COM Table of Contents 1...

lang:en score:43 filesize: 2.62 M page_count: 8 document date: 2023-10-27