

Model:BPT14-13A-A

Model:BPT14-24A-A



USE AND CARE GUIDE

VENTILATION FAN

READ AND SAVE THESE INSTRUCTIONS



Questions, problems, missing parts? Before returning to the store,
call AKICON Customer Service
8 a.m.-6 p.m., EST, Monday-Friday
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Introduction

Please read through the end before attempting to install for your safety and safety of others to eliminate the risk of personal injury or damage to property.

This unit is designed with built-in thermal cut-off for long life of motor and safety.

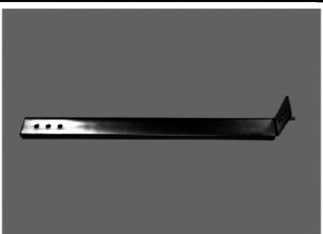

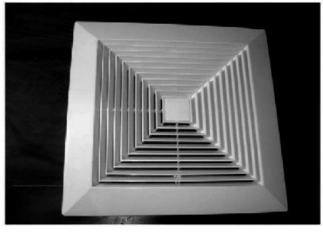
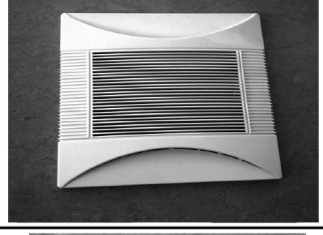


WARNING – To reduce the risk of fire, electric shock or injury to persons, observe the following:

**Rules & points to remember while installing the unit:
For safety & long life of unit,
To obtain a better result from unit.**

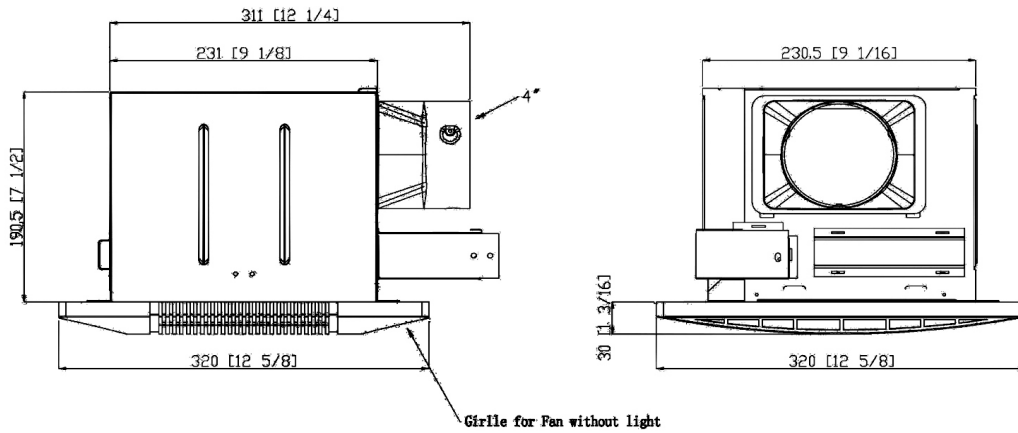
1. Installation of this unit has to be done by licensed electrician, it has to be grounded, before servicing or cleaning unit switch power “off” at service panel and lock the service, disconnecting means to prevent power from being switched “on” accidentally. When service, disconnecting means cannot be locked securely fasten a prominent warning device such as a tag to the service panel. Installation has to be done in accordance with applicable codes and standards, including fire rated construction.
2. Using this unit in any shower enclosure or above bathtub, should be on ground fault circuit interrupter.
3. The switch should not be accessible from inside shower or tub.
4. Make sure the voltage is 120V 60Hz and do not connect any electronic solid state on the same circuit as this unit.
5. This unit has to be ducted outside of building and avoid any sharp corner, area reduction or unnecessary angles on ducking. Do not vent exhaust air into spaces within walls or ceiling or into attic, crawl spaces or garages.
6. These units are for general use only, not to be used in kitchen or cooking area or where chemicals and explosives are used.
CAUTION: For general ventilating use only. Do not use to exhaust hazardous or explosive materials or vapors.
7. The fan motor is to be energized in a room ambient temperature of 10° to 40°C (50° to 104°F) initially at the rated voltage of the fan until the winding temperature stabilizes.

8. When cutting or drilling into a wall or ceiling, do not damage electrical wiring other hidden utilities.
9. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
10. for UL:the fan is intended to be mounted at least 2.1m(7.6feet)above the floor.
11. Suitable for ceiling installation over tub or shower.

List of Parts and Accessories

Figure #	Picture	Description	Figure #	Picture	Description
1		Bracket	6		Bracket Extension
2		Grille for Fan without light			
3		Grille for Fan without light			
4		Screws			
5		Screws			

Dimensions



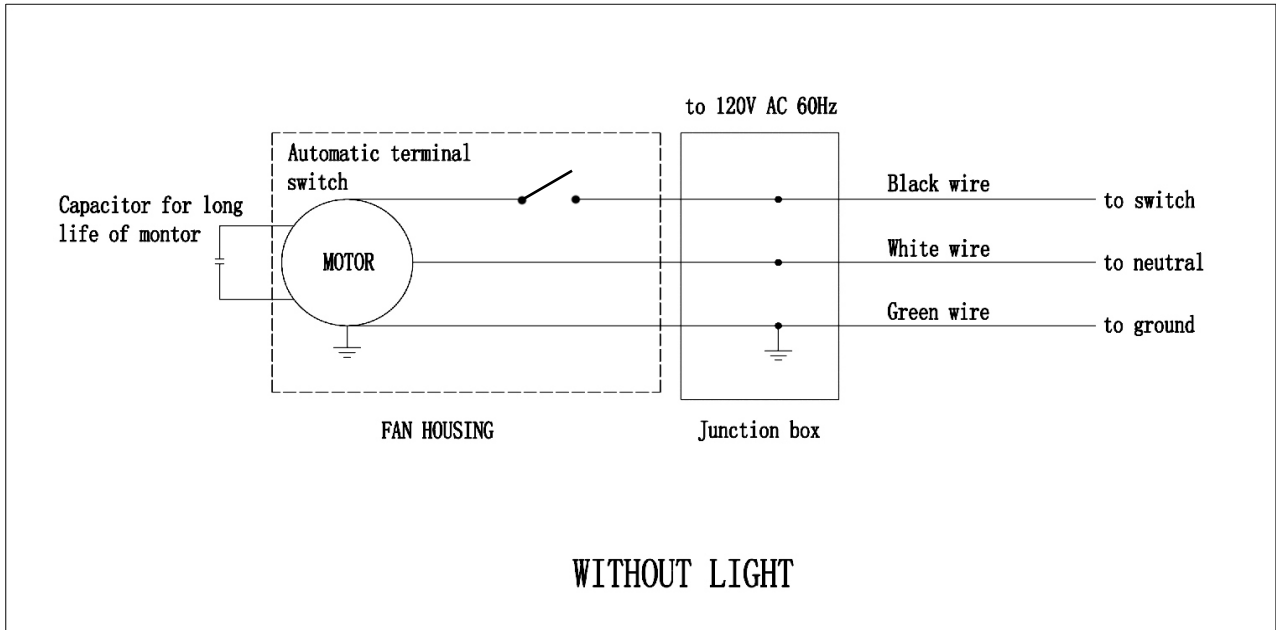
Specifications

For an average duct which is 10' to 15' long, 4" diameter with assumption of 8' high ceiling

Model	CFM	Volt	Hz	Sound Level*
BPT14-13A/13A-A	70	120	60	0.5 sones
BPT14-14A/14A-A	90	120	60	0.8 sones
BPT14-24A/24A-A	110	120	60	1.0 sones

For larger area or faster air exchange feel free to use larger fans with more CFM.

Sq.Ft.	CFM
60	70
70	70
80	90
90	90
125	110



Installation I (Joist mounting for lightless units)

1. For ideal ventilation use, hold the body of the fan with the exhaust side facing the desired duct direction.

DIAGRAM A



2. Place the body of the fan in-between joist in designated area.

DIAGRAM B



3. If convenient to secure the unit to the joist (otherwise go to step 4), place the unit against joists and push the fan to the proper depth and use long screws (Figure #5) in diagram.

DIAGRAM C



4. Add the provided brackets (**Figure #1**) to the sides that are not connected to the joists.

DIAGRAM D



5. If the brackets are too short to reach the joist, the provided extensions (**Figure #6**) can be used for stronger attachment.

DIAGRAM E



- 6.) Attach the duct to the exhaust outlet of the fan. Secure with duct tape (*Diagram F*) and make sure there is no air leak. Make sure that there are no sharp bends in the duct line (*Diagram G*). For 90 degree angles, use smooth curves or break into two smaller angles or curves (*Diagram H*).



DIAGRAM F
SECURE WITH DUCT TAPE



DIAGRAM G
WRONG SUPPORT



DIAGRAM H
RIGHT SUPPORT & ANGLE

◆ For safety & efficiency of the ventilation system, avoid sharp angles & loose support.

7. (A) *Electrical installation (for fan only)*
Wires from the power supply to the unit should not be smaller than size 14 AWG. The **ground** wire must be connected to the **green** wire in junction box. The **neutral** wire must be connected to the **white** wire in the junction box. The **hot** wire must be connected to the **black** wire in the junction box.
- (B) *Units with two separate switches (for fan)*
Wires from the power supply to the unit should not be smaller than size 14AWG. The **neutral** wire from the power supply must be connected to both **white** wires. The **hot** wire from the fan switch must be connected to the **black** wire of the fan.
- (C) *Units with light & fan operating with one switch*
The **neutral** wire from the power supply must be connected to **white** wires of fan
The **hot** wire from the switch must be connected to both **black** wires of fan
The **green** wire from the power supply is to be connected to both green wires.

Installation II

(Unit for remodeling or existing homes)

1. In case there is a ventilation unit with the same dimensions in the ceiling, proceed as below:
 - ◆ Remove the old unit.
 - ◆ Check the existing duct work and electrical wiring.
 - ◆ Install the unit as described in **Installation I**.

2. In case you want to make a new opening in the existing ceiling:
 - ◆ Find the best location for the ventilation purpose.
 - ◆ Make sure the chosen place has easy access to exterior air outlet (wall cap or roof jack) and there won't be the need to use sharp angles or very long duct.
 - ◆ Make sure the chosen place duct work will not interfere with any other existing duct work in the building.
 - ◆ Make sure there is no electrical wiring or any pipes behind the chosen place.
 - ◆ Open the optimal place.
 - ◆ Make the strong support beams for the unit (make sure it is strong enough for the weight of the unit).
 - ◆ Provide the duct system.
 - ◆ Provide the electrical wiring.
 - ◆ Follow the instructions on **Installation I**.

Maintenance

► Cleaning of the ventilation fan

Unit cleaning periodically is very advisable since dust, molds, grease and other dirt particles can affect the conductivity of the air in the unit.

The procedure should be done as follows:

- ◆ Remove the plastic cover/grille.
- ◆ Wash the cover with luke warm water and use mild detergent (like liquid soap) (avoid harsh detergent or boiling water).
- ◆ Dry the cover with a cloth or kitchen towel.
- ◆ Clean inside the unit with vacuum cleaner (motor shouldn't be in contact with any water or harsh chemicals & liquids.)
- ◆ Dry the body with paper towel.
- ◆ Put the cover back in place.