

Use, Care and Installation Guide

Read all Instructions before installing and operating this appliance

Important Safety Notice

MODEL: AK7000 Series

READ AND SAVE THESE INSTRUCTIONS

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT USE THIS FAN WITH ANY SOLID-STATE CONTROL DEVICE.

WARNING

TO REDUCE THE RISK OF FIRE ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- Use this unit only in the manner intended by the manufacturer, if you have questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

CAUTION

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors. Take care when using cleaning agents or detergents. Suitable for use in household cooking area.

WARNING

TO REDUCE THE RISK OF RANGE TOP GREASE FIRE:

- Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- Always turn hood ON when cooking at high heat or when flaming food
- Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- Use proper pan size. Always use cookware appropriate for the size of the surface element.
- Keep fan, filters and grease laden surfaces clean.
- Use high setting on hood only when necessary.
- Don't leave hood unattended when cooking.
- Always use cookware and utensils appropriate for the type of and amount of food being prepared.

WARNING

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP FIRE, OBSERVE THE FOLLOWING:

- SMOTHER FLAMES** with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. **BE CAREFUL TO PREVENT BURNS.** If the flames do not go out immediately, **EVACUATE AND CALL THE FIRE DEPARTMENT.**
- NEVER PICK UP A FLAMING PAN** – You may be burned.
- DO NOT USE WATER**, including wet dishcloths or towels – a violent steam explosion will result.

Important Safety Notice

Read and save these instructions

MODEL: AK7000 Series

- Use an extinguisher **ONLY** if:
 - You know you have a Class ABC extinguisher, and you already know how to operate it.
 - The fire is small and contained in the area where it started.
 - The fire department is being called.
 - You can fight the fire with your back to an exit

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.
- Sufficient air is needed for power combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always vent to the outdoors.
- If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCL (Ground Fault Interrupter protected branch circuit).
- NEVER** place a switch where it can be reached from a tub or shower.
- Make sure the power is off before installing, wiring or maintenancing.

WARNING

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

CAUTION

To reduce risk of fire and to properly exhaust air outside - Do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages.

WARNING

TO REDUCE THE RISK OF SHOCK, THIS FAN MUST BE INSTALLED WITH AN ISOLATING WALL CONTROL/SWITCH.



OPERATION

Always leave safety grills and filters in place. Without these components, operating blowers could catch onto hair, fingers and loose clothing.

***NOTE:** Please check www.zephyronline.com for revisions before doing any custom work.

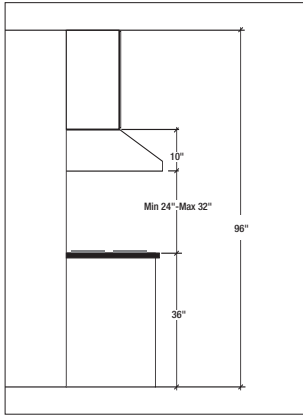


LIST OF MATERIALS

- 1 - Hood
 - 2 - Baffle filters (3-36", 3-42")
 - 2 - Halogen light bulbs (pre installed)
 - 1 - Hardware packet containing:
 - 4 - 2" drywall screws
 - 4 - 1 1/2" drywall screws
 - 4 - 1" drywall screws
 - 4 - 1/2" washers
 - 3 - wire connectors
 - 1 - 6 to 3 1/4 x 10 rectangular transition adapter
- 
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INSTALLATION

MOUNT HEIGHTS



Minimum mount height between range top to hood bottom should be no less than 24".

Maximum mount height should be no higher than 32".

It is important to install the hood at the proper mounting height. Hoods mounted too low could result in heat damage and fire hazard; while hoods mounted too high will be hard to reach and will lose its performance and efficiency.

If available, also refer range manufacturer's height clearance requirements and recommended hood mounting height above range.

DUCTING

A minimum of 6" round or 3-1/4" x 10" rectangular duct must be used to maintain maximum air flow efficiency.

Always use rigid type metal ducts only. Flexible ducts could restrict air flow by up to 50%.

Also use calculation (on right) to compute total available duct run when using elbows, transitions and caps.

ALWAYS, when possible, reduce the number or transitions and turns. If long duct run is required, increase duct size from 6" to 7 or 8". If a reducer is used, install a long reducer instead of a pancake reducer. Reduce duct size as far away from opening as possible.

If turns or transitions are required: Install as far away from opening and as far apart, between 2, as possible.

Minimum Duct Size:

Round:
6" minimum
Rectangular:
3-1/4" x 10"

Duct Run Calculation:

Maximum run

6" or 3-1/4" x 10" duct 100 FT

Deduct:

each 90 Elbow used	15 FT
each 45 elbow used	9 FT
each 6" to 3/14 x 10"	
transition used	1 FT
each 3/14 x 10" to 6"	
each 3/14 x 10" to 6"	
transition used	5 FT
Side Wall Cap w/ damper	30 FT
Roof Cap	30 FT

e.g. - 1 roof cap, 2x90 elbows, 1 x 45 elbow used:
=30' + 30' + 9' =69' used, 31' available for straight duct runs.

INSTALLATION

DUCTING

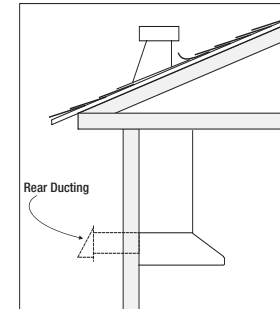
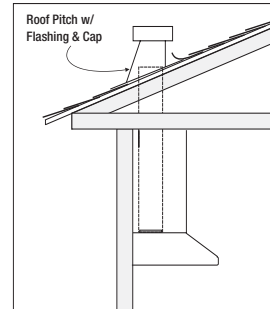
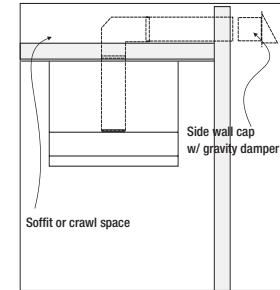
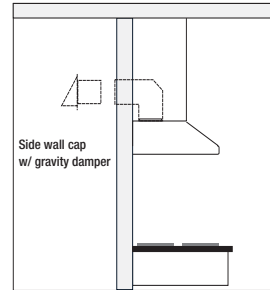
WARNING FIRE HAZARD

NEVER exhaust air or terminate duct work into spaces between walls, crawl spaces, ceiling, attics or garages. All exhaust must be ducted to the outside.

Use metal ductwork only.

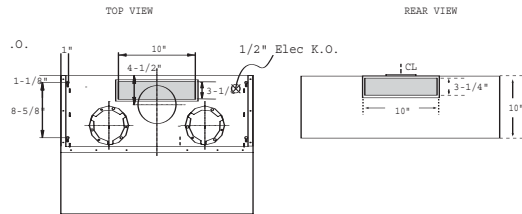
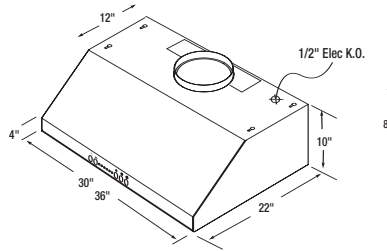
Fasten all connections with sheet metal screws and tape all joints w/ certified Silver Tape or Duct Tape.

Some Ducting Options:



INSTALLATION

SPECIFICATIONS



INSTALLATION

MOUNTING THE RANGEHOOD

ELECTRICAL

WARNING

All Electrical work must be performed by qualified electrician or person with similar technical know how and background.

For personal safety, remove house fuse or open circuit breaker before beginning installation.

Do not use extension cord or adapter plug with this appliance.

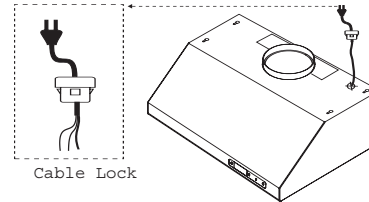
Follow National electrical codes or prevailing local codes and ordinances.

Electrical Supply:

This appliance requires a 120V 60Hz electrical supply, and connected to an individual, properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse. Wiring must be 2 wire w/ ground. Please also refer Electrical Diagram labeled on product.

Cable Lock:

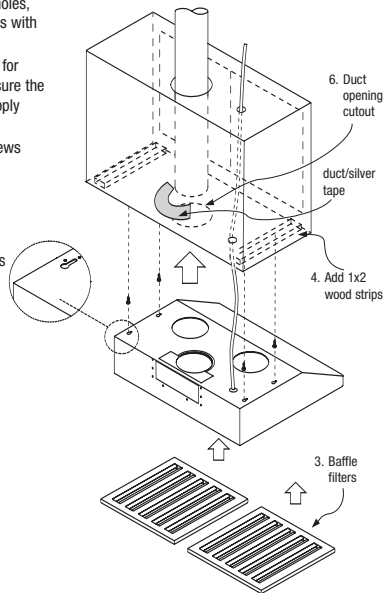
A cable locking connector (not supplied) might also be required by local codes. Check with local requirements and codes, purchase and install appropriate connector if necessary.



INSTALLATION

MOUNTING THE RANGEHOOD

1. This range hood is mounted under a kitchen cabinet unit.
2. Select preferred duct location on rear or top of unit. (See page 6 & 7 for ducting conversion options)
3. Begin installation by temporarily removing the baffle filters.
4. Reinforce cabinet base with 1x2 wood strips if additional strengthening is required.
5. Temporarily position the range hood in the desired mounting location. Measure and mark the mounting holes, duct and electrical access locations with a pencil.
6. Drill/cut out the required openings for duct and electrical access; make sure the duct opening is large enough to apply duct tape.
7. Fasten hood onto cabinet with screws and washers provided.
8. Install electrical.
9. Install duct work and duct-tape.
10. Reinstall the baffle filters.
11. Power up hood and check for leaks around duct-tape.



INSTALLATION

CONVERTIBLE OPTIONS

This range hood is equipped with the option of a 6" vertical discharge, 3 1/4"x10" vertical discharge, or 3 1/4"x10" rear discharge. Additional accessories are provided to convert to either of the above discharge methods.

Convertible Options

Vertical discharge	6" round
Vertical discharge	3 1/4"x10"
Horizontal rear discharge	3 1/4"x10"

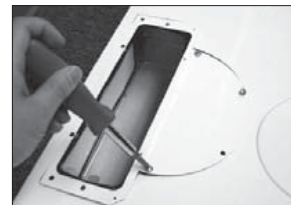
Convertible Accessories

Round to rectangular transition adaptor
Rectangular to round transition adaptor (pre-mounted)
Gasket (pre-mounted)
Rectangular rear cap (pre-mounted)
3 1/4"x10" starting collar

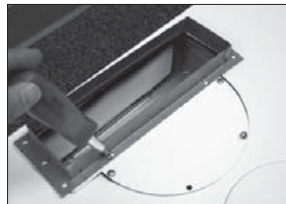
3 1/4"x10" Vertical Discharge



1. Remove pre-mounted 6" transition adaptor or duct opening. Leave attached gasket in its original place.



2. Place rectangular transition adaptor as shown over gasket and by first installing 4 screws on half round section.

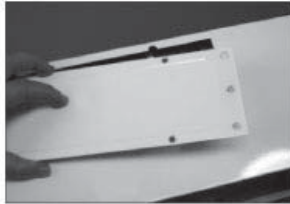


3. Mount the 3-1/4"x10" starting collar on top of transition piece with remaining screws.

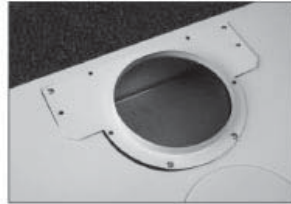
INSTALLATION

CONVERTIBLE OPTIONS

3/4" x 10" Rear Discharge



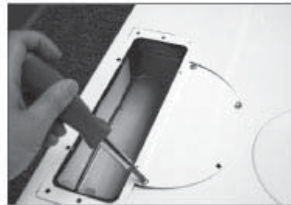
1. At the rear of the range hood, remove all the screws on pre-mounted rear rectangular cap, and remove cap.



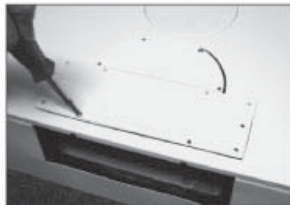
2. Remove top pre-mounted transition piece. Leave attached gasket in its original place.



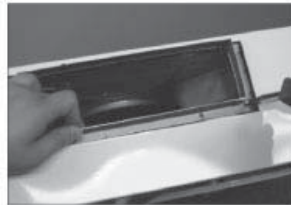
3. Remove 2 arch blocks through top opening.



4. Mount rectangular transition piece at opening with gasket, as shown.



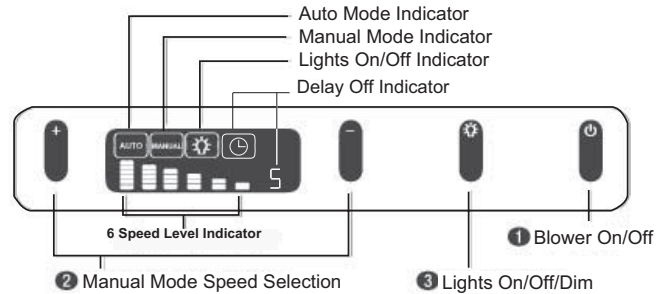
5. Mount rectangular cap, previously removed, on top of transition adapter.



6. Mount starting collar (provided) at rear discharge opening with gasket.

CONTROLS & FEATURES

CONTROLS & FEATURES



The control features on this range hood are touchless; to activate simply position your finger approximately 1/4" in front of the selected switch. Activation time 0.5 - 1 second

1 Blower On/Off

By pressing **AUTO**, the blower is switched On and Off. When switched on, the blower starts up on speed level 6 in auto mode **AUTO**, and will automatically adjust the fan speed accordingly. While in auto mode **AUTO**, the manual mode **MANUAL** indicator icon will flash indicating that you can still manually change speeds by selecting the + or - controls. The hood will automatically change speeds as the temperature varies.

Delay Off Mode

If the range hood was in auto mode **AUTO** and the temperature has not changed for 5 minutes, the hood will go into delay off mode. After a 5 minute countdown in delay off mode, the hood will shut down completely.

2 Manual Mode Speed Selection

Selecting + or - overrides all auto mode controls and activates manual mode **MANUAL** as indicated.

3 Lights On/Off/Dim

Switch lights On by selecting this switch. To Dim lights, activate again. Selecting one more time, will turn lights off.

Should you wish to manually turn off the touchless control for cleaning or safety, an electric toggle switch is located to the right of the lights behind the controls. Toggle between I (on) or 0 (off).

MAINTENANCE

CLEANING

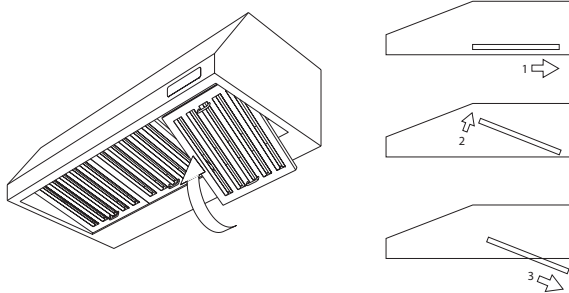
Surface Maintenance:

Clean periodically with hot soapy water and clean cotton cloth. Do not use corrosive or abrasive detergent (e.g. comet powder scrub, EZ-Off oven cleaner), or steel wool/scoring pads which will scratch and damage surface.

For heavier soil use liquid degreaser such as 'Formula 409' or 'Fantastic' brand cleaner. After cleaning, you may use non abrasive stainless steel polish/ cleaners such as 3M or ZEP, to polish and buff out the stainless luster and grain. Always scrub lightly, with clean cotton cloth, and with the grain.

Stainless Steel Baffle Filters

The stainless steel baffle filters fitted by the factory are intended to trap residue and grease from cooking. Although the filters never need replacement, they are required to be kept clean after approximately every 30 hours of use.



Removing Baffle Filters

1. Pull filter toward back of range hood using handles.
2. Pivot filter front upward.
3. Remove downwards to the rear.

MAINTENANCE

LIGHTS

Replacing Light Bulbs

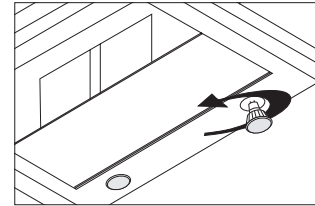
CAUTION: Light bulb becomes extremely hot when turned on.
DO NOT touch bulb until switched off and cooled. Touching hot bulbs could cause serious burns.

Make sure all power is turned off and bulbs are not hot.

Remove by turning bulb counter clockwise.

If bulbs are difficult to turn due to prolonged use, firmly attach a glass suction cup approx. the diameter of the bulb and turn.

Replacement bulbs are available at specialty lighting stores. Purchase type GU10 120V 35W halogen bulbs. Or to order bulbs, please call our service center: 888-880-8368 or online parts store: www.zephyronline.com



OPTIONAL ACCESSORIES

Model:	AK7000	AK7036	AK7042
Back Splash	AK0710	AK0716	AK0712

WARRANTY

TO OBTAIN SERVICE UNDER WARRANTY:

You must present proof of original purchase date.

Please keep a copy of your dated proof of purchase (sales slip)
in order to obtain service under warranty.

One Year Service Repair Warranty:

For one year from date of original purchase, we will provide free of charge, service labor to repair any failed parts or components due to manufacturing defects.

Ten Years Parts Warranty:

For ten years from date of original purchase, we will provide free of charge, nonconsumable replacement parts or components that failed due to manufacturing defects.

Consumable parts not covered by this warranty include: Light Bulbs, Metal and Carbon Filters.

Who is Covered:

This warranty is extended to the original purchaser for products purchased for ordinary home use in the 48 mainland states, Hawaii and Washington D.C.

In Canada and Alaska, this warranty is Limited. There might be costs associated with shipping the products to our designated service locations or you might need to pay service technician's travel costs, to have the appliance repaired in-home.

This Warranty will be Voided when:

Product damaged through negligence, misuse, abuse, accident.

Improper installation and failure to follow installation instructions. When product is used commercially or other than its intended purpose.

Damaged because of improper connection with equipment of other manufacturers.

Repaired or modified by anyone other than Zephyr's Authorized Agents.

What is Not Covered:

Consumable parts such as light bulbs, filters, and fuses.

Services outside of service area and the labor cost incurred in connection with the removal, shipping and reinstallation cost, nor does it cover any other contingent expenses.

The natural wear of finish, and wear due to improper maintenance, use of corrosive and abrasive cleaning products, pads, and oven cleaner products.

Chips, dents or cracks due to abuse, misuse, freight damage, or improper installation.

Service trips to your home to teach you how to use the product.

Damage of product caused by accident, fire, floods or act of God.

This warranty is valid in the United States and Canada. It is non-transferable and applies only to the original purchaser and does not extend to subsequent owners of this product. Any applicable implied warranties, including the warranty of merchantability, are limited in duration to a period of express warranty as provided herein beginning with the date of original purchase at retail and, no warranties, whether express or implied, shall apply to this product thereafter.

TO OBTAIN SERVICE UNDER WARRANTY

or any Service Related Questions, please call:

1-888-880-8368

Have your product proof of purchase with date ready for warranty issues.

Or write to:

Zephyr Corporation
Service and Warranty Department
395 Mendell Street
San Francisco, CA 94124

Troubleshooting Procedures for AK7500, AK700

Issue	Cause	What to do
After installation, the unit doesn't work?	1. The power source is not turned ON.	1. Make sure the circuit breaker and the unit's power is ON.
	2. The power line and the cable locking connector is not connecting properly.	2. Check the power connection with the unit is connected properly.
	3. The switch board and control board wirings are disconnected.	3. Make sure the wirings between the switch board and control board are connected properly.
	4. On the switch board, Black/White wire or White wire is disconnected.	4. Make sure the Black/White wire or White wire connects properly.
	5. The switch board or control board is defective.	5. Change the switch board or control board.
Light works, but motor is not turning.	1. The motor is defective, possible seized.	1. Change the motor.
	2. The thermally protected system detects if the motor is too hot to operate and shuts the motor down.	2. The motor will function properly after the thermally protected system cool down.
	3. Damaged condenser.	3. Change the condenser.
	4. The Blue wire on the control board is disconnected.	4. Make sure the Blue wire on control board is connected properly.
The unit is vibrating.	1. The motor is not secure in place.	1. Tighten the motor in place.
	2. Damaged blower wheel.	2. Change the blower wheel.
	3. The hood is not secured in place.	3. Check the installation of the hood.
The motor is working, but the lights are not.	1. Defective halogen bulb.	1. Change the halogen bulb.
	2. The light bulb is loose.	2. Tighten the light bulb.
	3. The RED wire on control board is loosen.	3. Make sure the RED wire on control board is connected properly.
The hood is not venting out properly.	1. The hood might be hanging to high from the cook top.	1. Adjust the distance between the cook top and the bottom of the hood within 24" and 32" range.
	2. The wind from the opened windows or opened doors in the surrounding area are affecting the ventilation of the hood.	2. Close all the windows and doors to eliminate the outside wind flow.
	3. Blocking in the duct opening or duct work.	3. Remove all the blocking from the duct work or duct opening.
	4. The direction of duct opening is against the wind.	4. Adjust the duct opening direction.
	5. Using the wrong size of ducting.	5. Change the ducting to at least 8" or higher.
Heat lamp is not working.	1. Power on the heat lamp is not turning on.	1. Make sure the heat lamp power is ON.
	2. Heat lamp bulb is defective.	2. Change the heat lamp bulb.
	3. Heat lamp bulb is loose.	3. Tighten the heat lamp bulb.
Metal filter is vibrating.	1. Metal filter is loose.	1. Change the metal filter.
	2. Spring clip is broken.	2. Change the spring clip.
Temperature Sensor is not working.	1. The right upper corner of LCD display indicates "HI".	1. Change the sensor.
	2. The right upper corner of LCD display indicates "LO".	2. Change the sensor.
	3. The right upper corner of LCD display indicates "Err" after changing the Sensor.	3. Change the switch board.