

ESSENTIALS

ZEPHYR

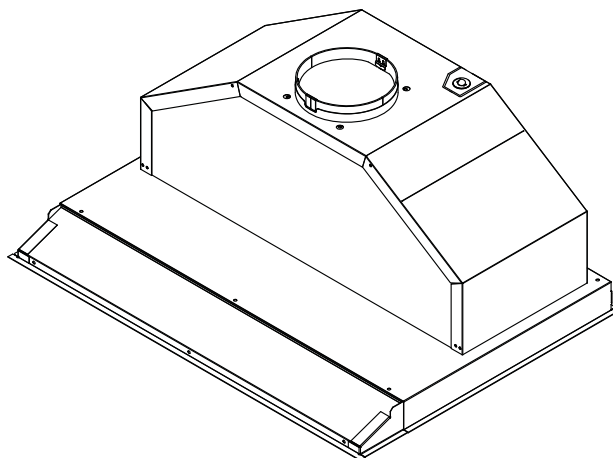
www.zephyronline.com

Use, Care, and Installation Guide

Vortex

AK9028AS

AK9034AS



Model number: _____

Serial Number: _____

Date of Purchase: _____

Sales Dealer: _____



JAN12.0101 © 2012 Zephyr Ventilation

READ AND SAVE THESE INSTRUCTIONS

SAFETY NOTICE	2-3
LIST OF MATERIALS	4
 INSTALLATION	
Ducting Calculation Sheet.....	5
Mounting Height & Clearance.....	6
Ducting Options	7
Specifications	8
Electrical	9
Custom Hood Preparation & Installation.....	10
Mounting the Insert	11
 FEATURES & CONTROLS	
Slide Controls	12
 MAINTENANCE	
Cleaning & Installing the Filter.....	13
Ductless Recirculating	14
Lights.....	15
 TROUBLESHOOTING.....	 16
 DIAGRAMS	
Fan Curve & Wiring.....	17
 LIST OF PARTS & ACCESSORIES.....	 18

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:

- a. Use this unit only in the manner intended by the manufacturer, if you have questions, contact the manufacturer.
- b. 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:

- a. 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.
- b. Always turn hood ON when cooking at high heat or when flaming food
- c. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- d. Use proper pan size. Always use cookware appropriate for the size of the surface element.
- e. Keep fan, filters and grease laden surfaces clean.
- f. Use high setting on hood only when necessary.
- g. Don't leave hood unattended when cooking.
- h. 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:

- a. 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.
- b. NEVER PICK UP A FLAMING PAN – You may be burned.
- c. DO NOT USE WATER, including wet dishcloths or towels – a violent steam explosion will result.
- d. Use an extinguisher ONLY if:
 1. You know you have a Class ABC extinguisher, and you already know how to operate it.
 2. The fire is small and contained in the area where it started.
 3. The fire department is being called.
 4. 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:

- a. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards. Including fire-rated construction.
- b. 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.
- c. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- d. Ducted fans must always vent to the outdoors.
- e. NEVER place a switch where it can be reached from a tub or shower.
- f. Make sure the power is off before installing, wiring or maintaining.

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.

OPERATION

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

The manufacturer declines all responsibility in the event of failure to observe the instructions given here for installation, maintenance and suitable use of the product. The manufacturer further declines all responsibility for injury due to negligence and the warranty of the unit automatically expires due to improper maintenance.

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

ELECTRICAL REQUIREMENTS

Important:

Observe all governing codes and ordinances.

It is the customer's responsibility:

- To contact a qualified electrical installer.
- To assure that the electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70 latest edition* or CSA standards C22.1-94, Canadian Electrical Code, Part 1 and C22.2 No.0-M91 - latest edition** and all local codes and ordinances.

If codes permit and a separate ground wire is used, it is recommended that a qualified electrician determine that the ground path is adequate.

Do not ground to a gas pipe.

Check with a qualified electrician if you are not sure the range hood is properly grounded.

Do not have a fuse in the neutral or ground circuit.

*National Fire Protection Association Batterymarch Park, Quincy, Massachusetts 02269

** CSA International 8501 East Pleasant Valley Road, Cleveland, Ohio 44131-5575

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 with ground. Please also refer to Electrical Diagram on product.

AK9028AS / AK9034AS - Max. 315W @ 2.7 Amps

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

List of Materials

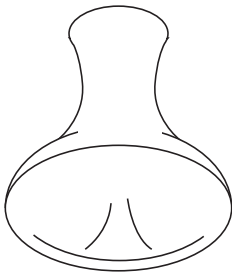
MODELS: AK9028AS AND AK9034AS

PARTS SUPPLIED

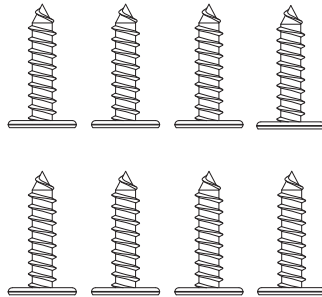
- 1 - One piece insert
- 1 - Adjustable front panel
- 1 - Baffle filter
- 2 - Halogen light bulbs (pre-installed)
- 1 - Internal blower with damper (pre-installed)
- 1 - Hardware package

HARDWARE PACKAGE CONTENTS

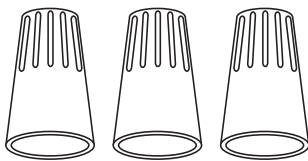
Light Bulb Removal
Suction Cup (1)



#8 x 1/2" (8)





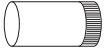
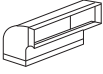
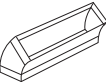
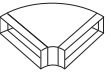
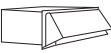
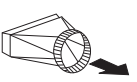
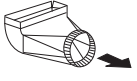
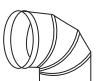

Wire Caps (3)

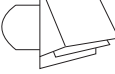

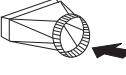
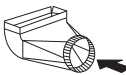


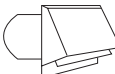

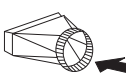
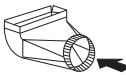


PARTS NOT SUPPLIED

- Ducting, conduit and all installation tools
- Cable connector (*if required by local codes*)
- Optional Recirculating Kit (ZRC-9000)

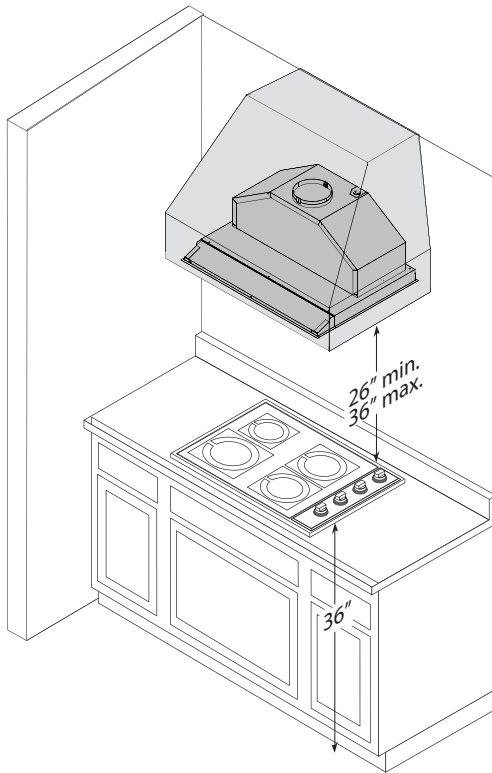
Installation – Ducting Calculation Sheet

Duct pieces		Equivalent number length x used =	Total
	3-1/4" x 10" Rect., straight	1 Ft. x () =	Ft.
	6" Round, straight	1 Ft. x () =	Ft.
	7"-10" Round, straight	1 Ft. x () =	Ft.
	3-1/4" x 10" Rect. 90° elbow	15 Ft. x () =	Ft.
	3-1/4" x 10" Rect. 45° elbow	9 Ft. x () =	Ft.
	3-1/4" x 10" Rect. 90° flat elbow	24 Ft. x () =	Ft.
	3-1/4" x 10" Rect. wall cap with damper	30 Ft. x () =	Ft.
	3-1/4" x 10" Rect. to 6" round transition	5 Ft. x () =	Ft.
	3-1/4" x 10" Rect. to 6" round transition 90° elbow	20 Ft. x () =	Ft.
	6" Round, 90° elbow	15 Ft. x () =	Ft.
	6" Round, 45° elbow	9 Ft. x () =	Ft.
Subtotal column 1 =			Ft.

Duct pieces		Equivalent number length x used =	Total
	6" Round wall cap with damper	30 Ft. x () =	Ft.
	6" Round, roof cap	30 Ft. x () =	Ft.
	6" round to 3-1/4" x 10" rect. transition	1 Ft. x () =	Ft.
	6" round to 3-1/4" x 10" rect. transition 90° elbow	16 Ft. x () =	Ft.
	7" - 10" Round, 90° elbow	15 Ft. x () =	Ft.
	7" - 10" Round, 45° elbow	9 Ft. x () =	Ft.
	7" - 10" Round wall cap with damper	30 Ft. x () =	Ft.
	7" - 10" Round, roof cap	30 Ft. x () =	Ft.
	7" round to 3 1/4" x 10" rect. transition	8 Ft. x () =	Ft.
	7" round to 3-1/4" x 10" rect. transition 90° elbow	23 Ft. x () =	Ft.
Subtotal column 2 =			Ft.
Subtotal column 1 =			Ft.
Total ductwork =			Ft.

Maximum Duct Length: For satisfactory air movement, the total duct length should not exceed 100 equivalent feet.

Installation – Mounting Height & Clearance



DUCTING

A minimum of 6" round 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 page 5) 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.

If turns or transitions are required; install as far away from insert duct output and as far apart, between the two as possible.

Minimum mount height between range top to cabinet bottom should be no less than 26".

Maximum mount height should be no higher than 36".

It is important to install the insert at the proper mounting height. Inserts mounted too low could result in heat damage and fire hazard; while inserts 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 insert mounting height above range.

Vertical Ducting:
6" round minimum

Horizontal Ducting:
N/A

DAMAGE-SHIPMENT / INSTALLATION:

- Please fully inspect unit for damage before installation.
- If the unit is damaged in shipment, return the unit to the store in which it was bought for repair or replacement.
- If the unit is damaged by the customer, repair or replacement is the responsibility of the customer.
- If the unit is damaged by the installer (if other than the customer), repair or replacement must be made by arrangement between customer and installer.

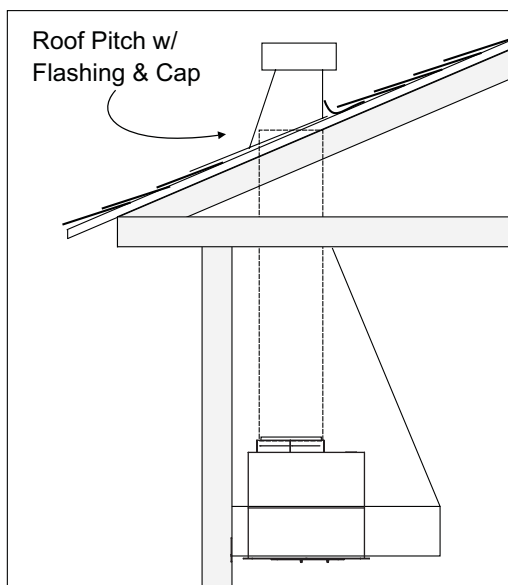
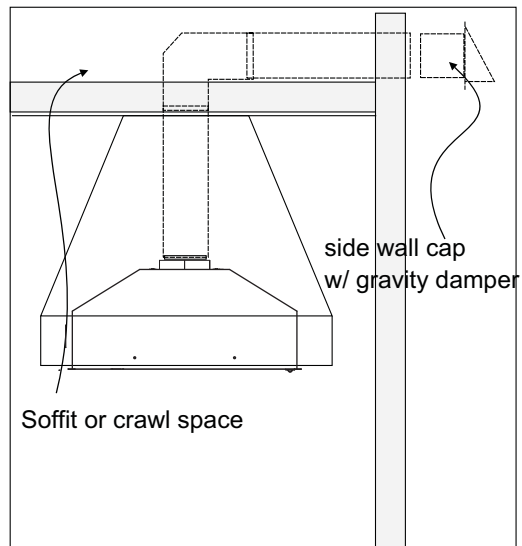
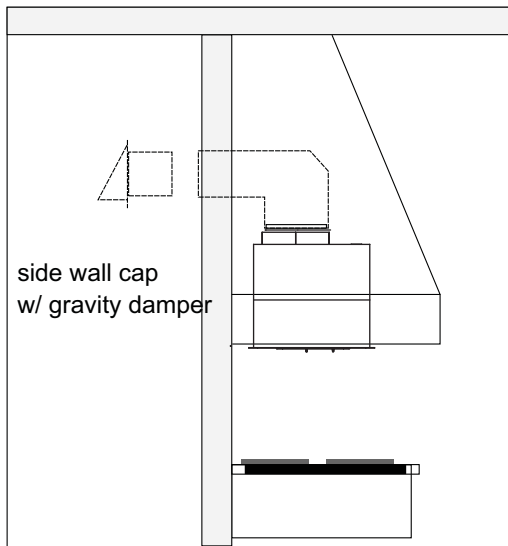
WARNING FIRE HAZARD

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.

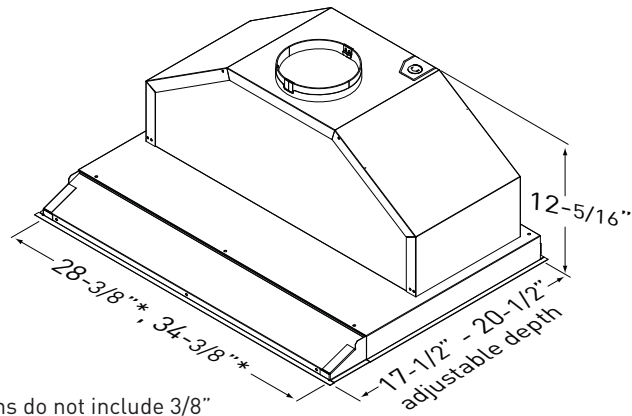
Use metal ductwork only.

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

Some Ducting Options

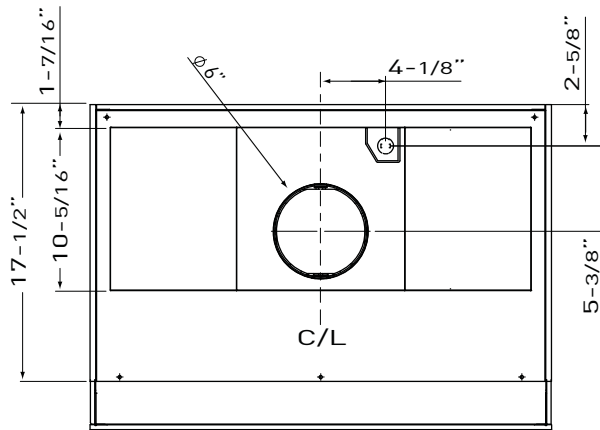


Installation – Specifications

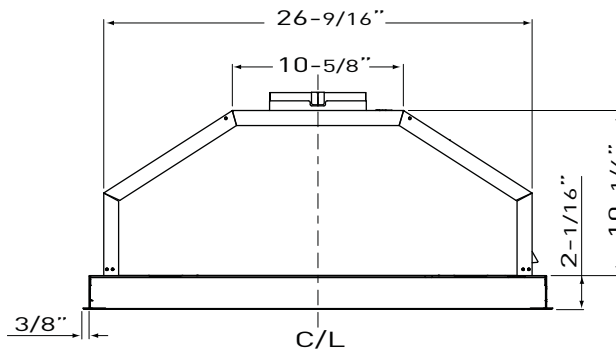


*dimensions do not include 3/8" wide flange around the insert

3/4 View



Top View



Back View

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.

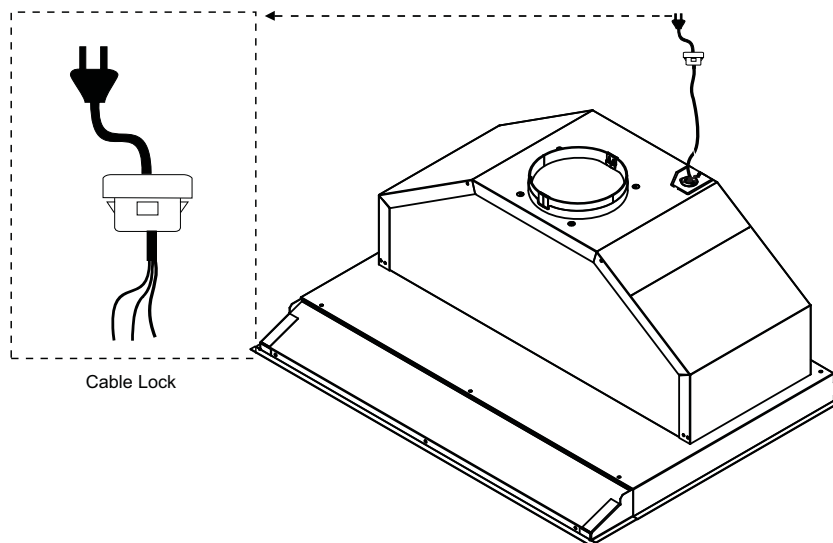
Follow national electrical codes or prevailing local codes and ordinances.

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 – Custom Hood Preparation & Installation

⚠ CAUTION: At least two installers are required due to the weight and size of the hood.

If possible, power up and test all functions prior to installation.

1. Remove baffle filter, all packing materials and protective film prior to installation. Use caution during installation to prevent scratches or damage to the stainless steel.
2. Prepare custom hood enclosure by following the dimensions in FIG. 1.
3. Install insert into custom hood. FIG. 2, Page 11.

WARNING: Make sure the surface you are securing the insert to is capable of holding the weight of AK90. Failure to do so may cause personal injury or damage to cooking surface or counter. Wood blocking may need to be added to cabinet base if additional support is needed.

4. Secure front panel to custom hood. FIG. 3, Page 11
5. Finalize electrical and duct work. Seal duct work with certified aluminum duct tape.
- Note:** If access to the top of the insert is not available after installation, duct work and electrical connection may need to be installed prior to installing the insert.
6. Power on the insert, check for leaks around duct tape and test for proper operation.
7. Re-install baffle filter.

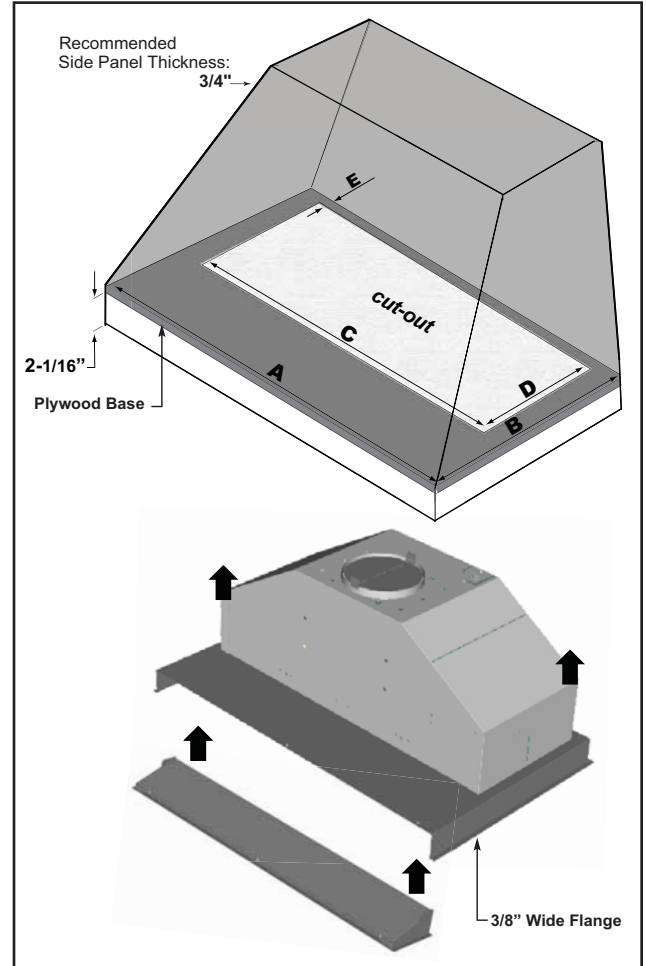


FIG. 1

Model	Custom Hood Exterior Width	Inside Width* (A)	Inside Depth* (B)	
			Without Backboard	With Backboard**
AK9028AS	30 inches	28 1/2"	17 1/2" - 20 1/2"	17 1/8" - 20 1/8"
AK9034AS	36 inches	34 1/2"		

Model	Cut-Out Width (C)	Cut-Out Depth (D)	Rear Base Depth (E)	
			Without Backboard	With Backboard**
AK9028AS	26-5/8"	10-1/2"	1-3/8"	1"
AK9034AS				

*Dimension does not include 3/8" wide flange around liner.

**Assumes backboard thickness of 3/8"

FIG. 1

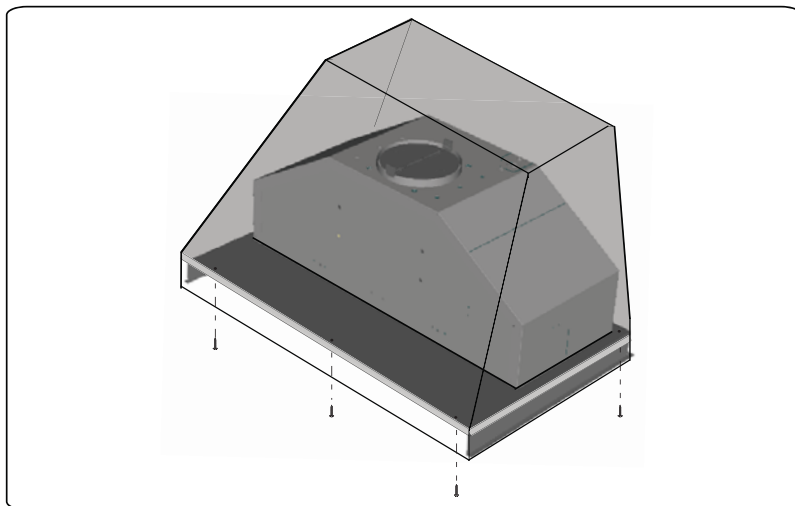


FIG. 2

1. Lift insert into opening and secure to bottom of custom hood using (5) #8 x 1/2" stainless steel screws. FIG. 2.

WARNING: Make sure the surface you are securing the insert to is capable of holding the weight of AK90. Failure to do so may cause personal injury or damage to cooking surface or counter. Wood blocking may need to be added to custom hood base if additional support is needed.

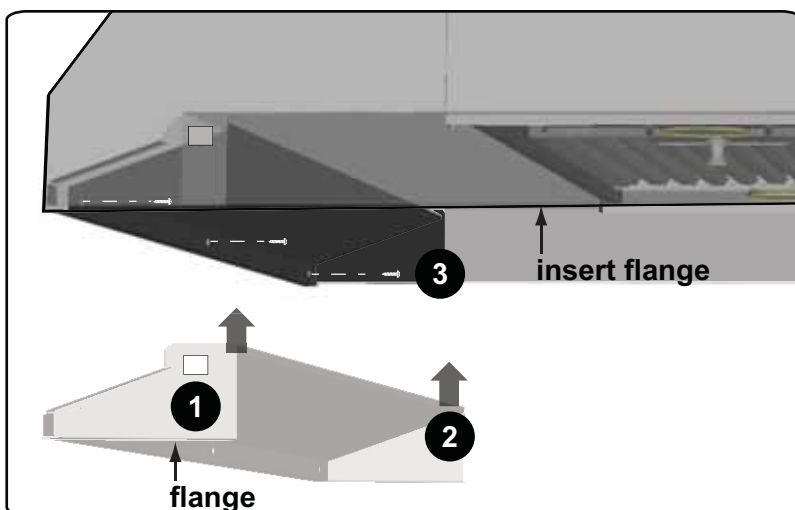
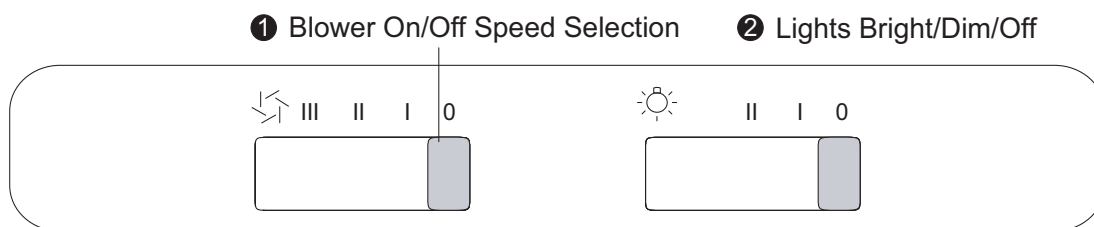


FIG. 3

2. Remove film from double-sided tape on the sides of front panel. FIG. 3-1
3. Lift front panel up and slide into the nose of the custom hood base. The tape will temporarily hold it in place and help keep the bottom flange of the front panel flush with the insert bottom flange. FIG. 3-2
4. Secure front panel to interior front of custom hood by using (3) #8 x 1/2" screws. FIG. 3-3
5. Return to Page 10, Step 5 to complete installation.

Features & Controls – Slide Controls



1 BLOWER ON/OFF/SPEED SELECTION

0 is off, I is low speed, II is medium speed and III is high speed.

2 LIGHTS BRIGHT/DIM/OFF

0 is off, I is dim, and II is bright.

SURFACE MAINTENANCE:

Clean periodically with hot soapy water and clean cotton cloth. Do not use corrosive or abrasive detergent, or steel wool/ scoring pads which will scratch and damage surface. Do not use products containing chlorine bleach or orange cleaners. For heavier soil use liquid degreaser.

After cleaning, you may use non-abrasive stainless steel polish/ cleaners, to polish and buff out the stainless luster and grain. Always scrub lightly using a micro fiber or clean cotton cloth and with the grain.

Cleaning the Baffle Filter

The filter is intended to trap residue and grease from cooking. Although the filter should never need replacing, it is required to be cleaned every 30 days or more often depending on cooking habits.

Filters may be placed in dishwasher at low heat or soaked in hot soapy water. Dry filters and re-install before using hood.

NOTE: If your insert is setup for ductless recirculating, make sure to remove the charcoal filter prior to cleaning the baffle filter. Charcoal filters are not intended to be cleaned.

Installing the Baffle Filter, FIG. 4:

1. Place bottom of filter into channel on insert.
2. Push filter handle in.
3. Pivot filter up and lock into place.

Part No.	Qty. to Order
50210016	1

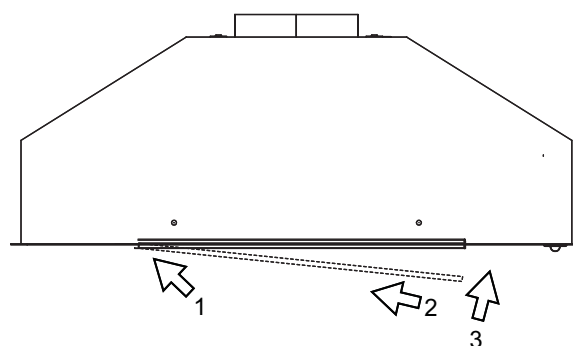


FIG. 4

DUCTLESS RECIRCULATING (OPTION)

Ductless recirculating is intended for applications where an exhaust duct work is not possible to be installed. When converted, the insert functions in air “purifying” mode rather than exhausting the air. Fumes and exhaust from cooking is drawn and filtered by a charcoal filter. The air is then purified and recirculated back into the kitchen.

We recommend to always exhaust air outside of the home by employing existing or installing new duct work, if possible. The insert is most effective and efficient as an exhaust unit. Only when the exhaust option is not possible should you use the insert in recirculating mode.

When converted to recirculating mode, a charcoal filter is required to be installed on top of the baffle filter and a return air vent is needed to direct air back into the kitchen. The baffle filter is intended to capture residue from cooking and the charcoal filter helps to purify fumes exhausted from cooking in recirculating mode.

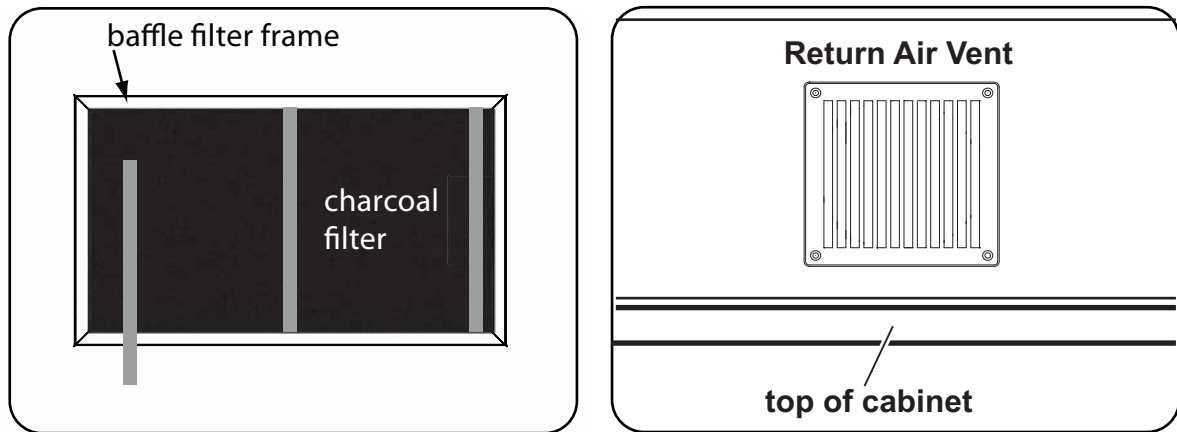
Purchase recirculating kit as follows.

Part No.	Qty. to Order
ZRC-9000	1

Charcoal filters are not washable and must be replaced approximately every 3 months based off an average usage of 1 hour a day.

Order replacement charcoal filters as follows:

Part No.	Qty. to Order
Z0F-C090	1



For detailed installation instructions please refer to manual included with recirculating kit.

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.

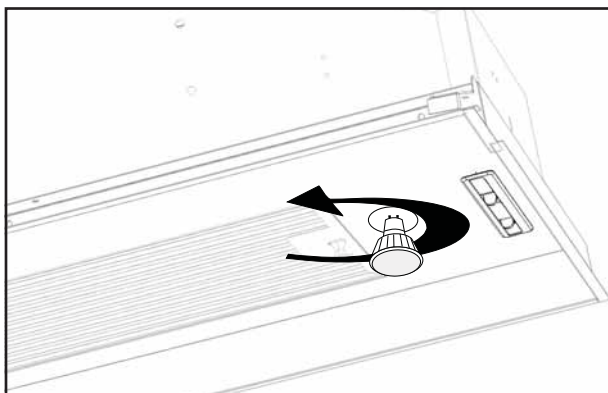
Make sure all power is turned off and bulbs are not hot.

Remove by turning bulb counter clockwise. **Note:** Bulb does not unscrew; it turns 60 degrees, stops and falls out.

If bulbs are difficult to turn due to prolonged use, firmly attach the provided suction cup or use a rubber/ latex glove and turn counter clockwise.

Replacement bulbs are available at specialty lighting stores. Purchase type MR16 (GU-10) 35W halogen.

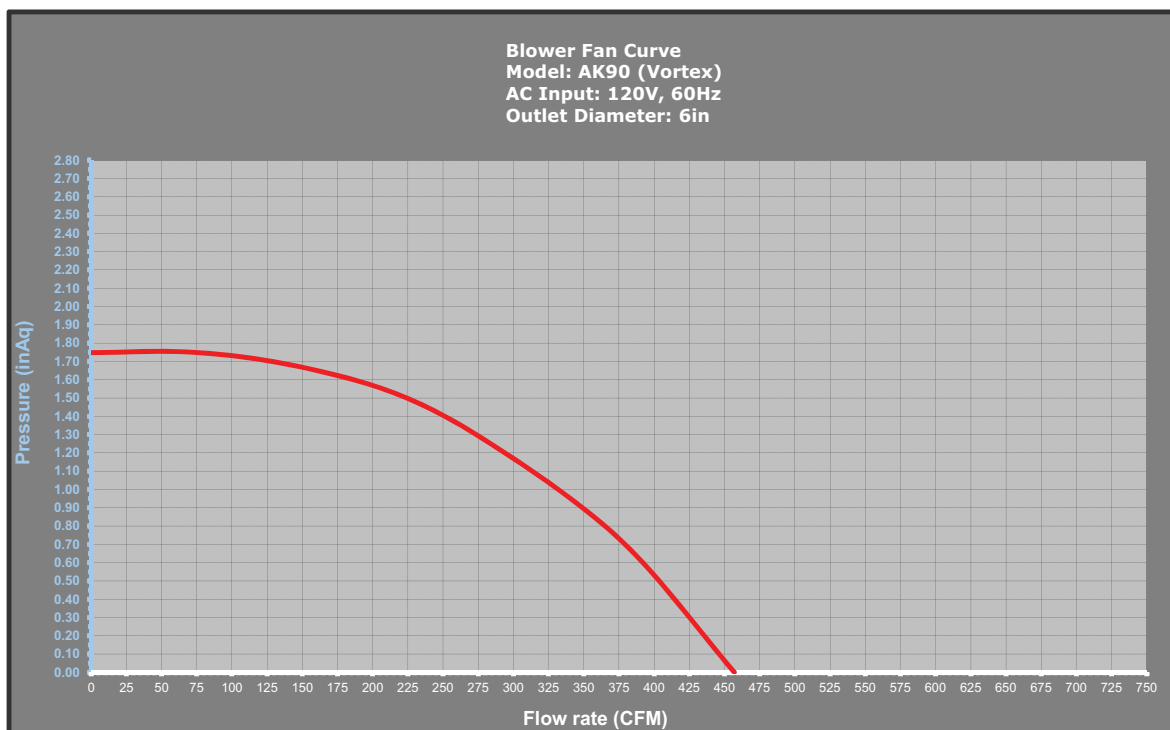
For Zephyr part numbers please turn to page 18 of the manual.



Bottom View

TROUBLESHOOTING PROCEDURES FOR VORTEX

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 wirings are disconnected.	3. Make sure the wirings at the switch are connected properly.
	4. The switch is defective.	4. Change the switch.
Light works, but blower is not turning.	1. The blower is defective, possible seized.	1. Change the blower.
	2. The thermally protected system detects if the blower is too hot to operate and shuts the blower down.	2. The blower will function properly after the thermally protected system cools down.
	3. Blower moxex plug pin is not making contact.	3. Disconnect the blower moxex plug, check pins inside plug to see if one is pushed inside the plug too far. Reseat pin if needed.
	4. Damaged capacitor.	4. Change the capacitor.
The unit is vibrating.	1. The blower is not secure in place.	1. Tighten the blower in place.
	2. Damaged blower wheel.	2. Change the blower.
	3. The hood is not secured in place.	3. Check the installation of the hood.
The unit is whistling.	1. The filter is not in the correct position.	1. Change the position of the filter.
	2. The duct pipe connections are not connected properly.	2. Check the duct pipe connections to be sure all are connections are sealed properly.
The blower 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 light bulb plug is disconnected.	3. Connect the light bulb plug.
The hood is not venting out properly.	1. The hood might be hanging too high from the cook top.	1. Adjust the distance between the cook top and the bottom of the hood within 26" to 36" 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 6" or higher.
Metal filter is vibrating.	1. Metal filter is loose.	1. Change the metal filter.
	2. Spring clip is broken.	2. Change the spring clip.



Model:AK9028AS
AK9034AS

Voltage: 120V 60Hz

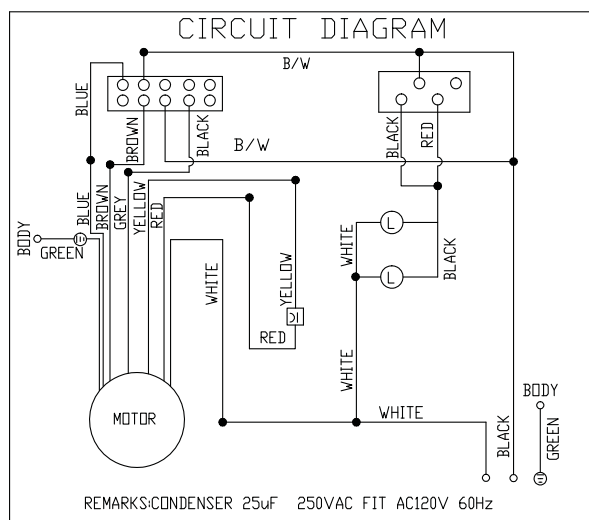
Power consumption

Total:Max. 315W @ 2.7A

Lamp: Max. 35Wx2

Fan: Max. 245W

THERMALLY PROTECTED



List of Parts & Accessories

DESCRIPTION

PART

Replacement Parts

Light Bulb MR16 (GU10) 35W (each)
Baffle Filter (each)

Z0B-0023
50210016

C

Optional Accessories

Recirculating Kit w/ Charcoal Filter
Charcoal Filter Replacement (each)

ZRC-9000
Z0F-C090

To order parts, visit us online at <http://store.zephyronline.com> or call us at 1.888.880.8368

ZEPHYR

Limited Warranty

STAPLE YOUR RECEIPT HERE
Proof of the original purchase
date is needed to obtain
service under warranty

TO OBTAIN SERVICE UNDER WARRANTY OR FOR ANY SERVICE RELATED QUESTIONS, please call:
1-888-880-8368

Zephyr Corporation (referred to herein as “we” or “us”) warrants to the original consumer purchaser (referred to herein as “you” or “your”) of Zephyr products (the “Products”) that such Products will be free from defects in materials or workmanship as follows:

Three Year Limited Warranty for Parts: For three years from the date of your original purchase of the Products, we will provide, free of charge, Products or parts to replace those that failed due to manufacturing defects. We may choose, in our sole discretion, to repair or replace parts before we elect to replace the Products.

One Year Limited Warranty for Labor: For one year from the date of your original purchase of the Products, we will provide, free of charge, the labor cost associated with repairing the Products or parts to replace those that failed due to manufacturing defects. After the first year from the date of your original purchase, you are responsible for all labor costs associated with this warranty.

Warranty Exclusions: This warranty covers only repair or replacement, at our option, of defective Products or parts and does not cover any other costs related to the Products including but not limited to: (a) normal maintenance and service required for the Products and consumable parts such as light bulbs, metal and carbon filters and fuses; (b) any Products or parts which have been subject to freight damage, misuse, negligence, accident, faulty installation or installation contrary to recommended installation instructions, improper maintenance or repair (other than by us); (c) commercial use of the Products or use otherwise inconsistent with its intended purpose; (d) natural wear of the finish of the Products or wear caused by improper maintenance, use of corrosive and abrasive cleaning products, pads, and oven cleaner products; (e) chips, dents or cracks caused by abuse or misuse of the Products; (f) service trips to your home to teach you how to use the Products; or (g) damage to the Products caused by accident, fire, floods or act of God. If you are outside our service area, additional charges may apply for shipping costs for warranty repair at our designated service locations and for the travel cost to have a service technician come to your home to repair, remove or reinstall the Products. After the first year from the date of your original purchase, you are also responsible for all labor costs associated with this warranty.

Limitations of Warranty. OUR OBLIGATION TO REPAIR OR REPLACE, AT OUR OPTION, SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. WE SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE PRODUCTS. THE EXPRESS WARRANTIES IN THE PRECEDING SECTION ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES. WE HEREBY DISCLAIM AND EXCLUDE ALL OTHER EXPRESS WARRANTIES FOR THE PRODUCTS, AND DISCLAIM AND EXCLUDE ALL WARRANTIES IMPLIED BY LAW, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states or provinces do not allow limitations on the duration of an implied warranty or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. To the extent that applicable law prohibits the exclusion of implied warranties, the duration of any applicable implied warranty is limited to the same two-year period described above. Any oral or written description of the Products is for the sole purpose of identifying the Products and shall not be construed as an express warranty. Prior to using, implementing or permitting use of the Products, you shall determine the suitability of the Products for the intended use, and you shall assume all risk and liability whatsoever in connection with such determination. We reserve the right to use functionally equivalent refurbished or reconditioned parts or Products as warranty replacements or as part of warranty service. This warranty is not transferable from the original purchaser and applies in the United States and Canada.

To Obtain Service Under Limited Warranty: To qualify for warranty service, you must: (a) notify us at the address or telephone number stated below within 60 days of the discovery of the defect; (b) give the model number and part identification number and serial number; and (c) describe the nature of any defect in the Product or part. At the time of the request for warranty service, you must present evidence of your proof of purchase and proof of the original purchase date. If we determine that the warranty exclusions listed above apply or if you fail to provide the necessary documentation to obtain service, you will be responsible for all shipping, travel, labor and other costs related to the services.

Please check our website for any revisions, www.zephyronline.com.

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