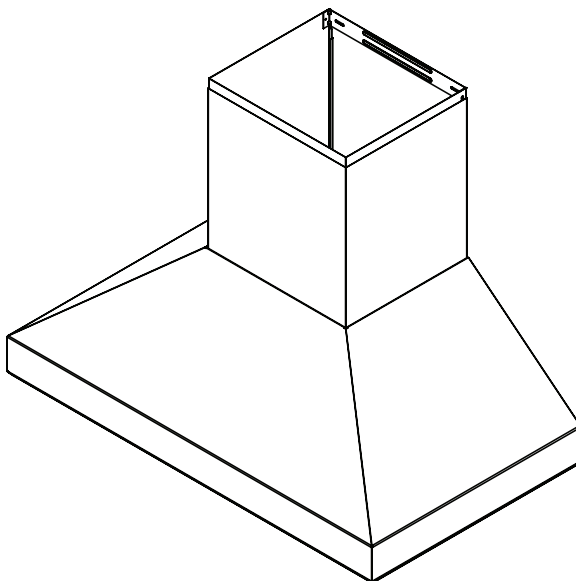


Use, Care, and Installation Guide

Titan

AK7636AS
AK7642AS
AK7648AS
AK7654AS
AK7660AS



Model number: _____

Serial Number: _____

APR19.0401 © Zephyr Ventilation LLC.

READ AND SAVE THESE INSTRUCTIONS

ACTTM
Airflow Control Technology

UL[®] **US LISTED**

SAFETY NOTICE	2-3
LIST OF MATERIALS	4
 INSTALLATION	
Ducting Calculation Sheet.....	5
Mounting Height & Clearance.....	6
Ducting Options	7
Specifications	8
Mounting the Range Hood.....	9
Single Blower Horizontal Ducting Conversion	10-11
PBD-1300A Dual Blower Vertical Ducting	12
PBD-1300A Dual Blower Horizontal Ducting..	13
 FEATURES & CONTROLS	
Electronic LCD Controls.....	14
Optional Remote Control.....	15
 MAINTENANCE	
Cleaning, Filter Removal & Lights	16
 TROUBLESHOOTING.....	 17
 ACT™ CONVERSION	 18
 WIRING DIAGRAMS	 19
 LIST OF PARTS AND ACCESSORIES	 20
 WARRANTY	 21
 PRODUCT REGISTRATION.....	 22

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 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.

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.

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

FEDERAL COMMUNICATION COMMISSION INTERFACE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help

Prop. 65 Warning for California Residents



WARNING:

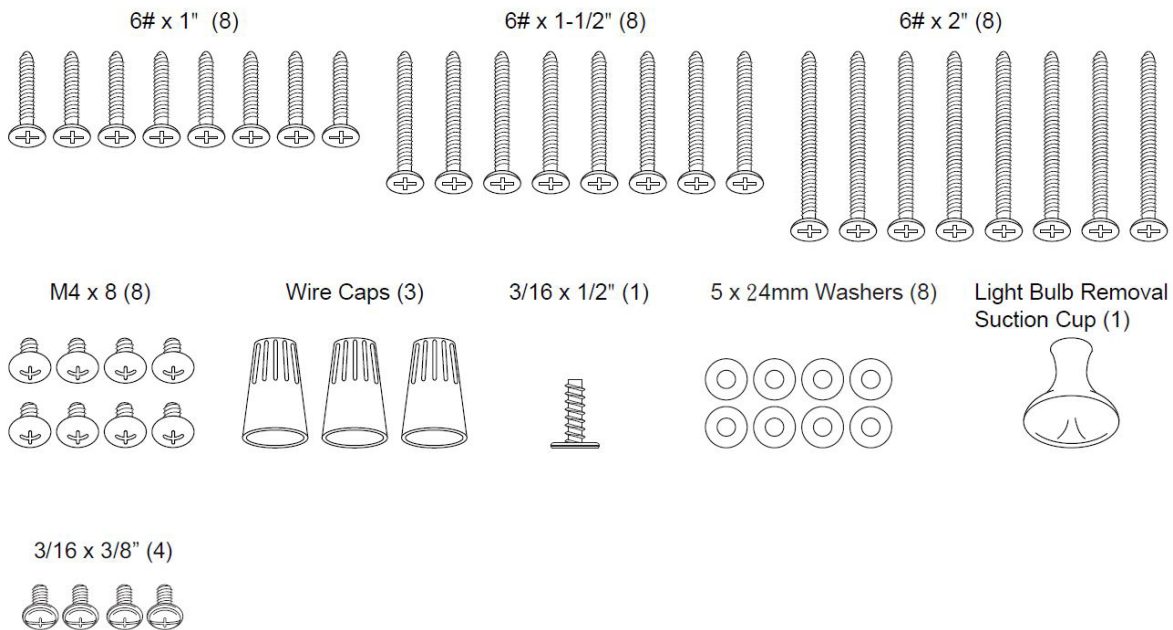
Cancer and Reproductive Harm - www.P65Warnings.ca.gov

List of Materials

MODELS: AK7636AS, AK7642AS, AK7648AS, AK7654AS, AK7660AS

PARTS SUPPLIED


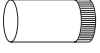
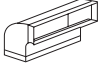
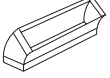

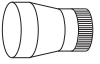
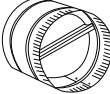


- 1 - Hood
- 2 - Duct covers, 1 upper & 1 lower
- 1 - Duct cover bracket
- 2 - Baffle filters, AK7636AS & AK7642AS
- 3 - Baffle filters, AK7648AS, AK7654AS & AK7660AS
- 2 - LED light bulbs, AK7636AS & AK7642AS
- 4 - LED light bulbs, AK7648AS, AK7654AS & AK7660AS
- 1 - 8 in. round starting collar (for single blower ducting)
- 1 - Top cover plate (for horizontal ducting)
- 1 - Hardware package



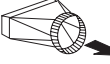
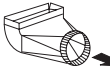
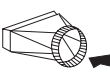
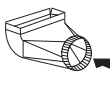
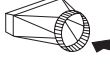
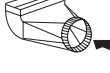
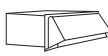
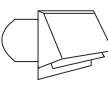

PARTS NOT SUPPLIED

- Ducting, conduit and all installation tools
- Cable connector (if required by local codes)
- Dual Internal Blower Kit (PBD-1300A)
- Duct Cover Extension Accessory
- Remote Control Accessory

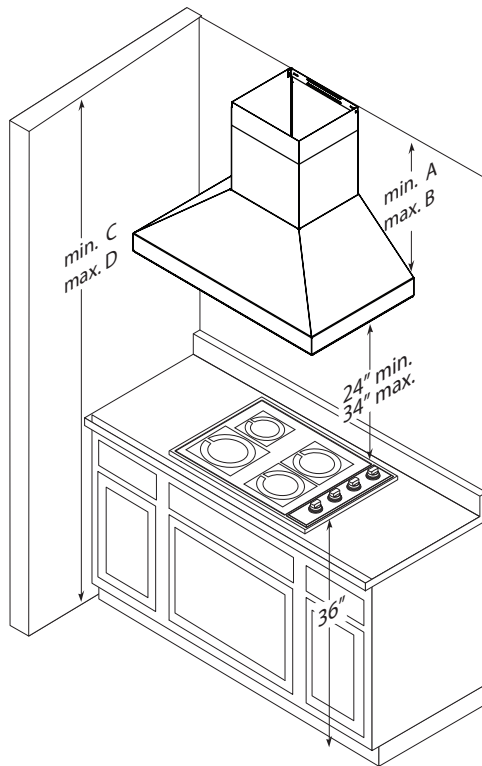
Installation – Ducting Calculation Sheet

Duct pieces		Equivalent number length x used =	Total
	3-1/4" x 10" Rect., straight	1 Ft. x () =	Ft.
	6", 7", 8", 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.
	7" to 6" or 8" to 7" Round tapered reducer	25 Ft. x () =	Ft.
	6", 7", 8" Round in-line damper	15 Ft. x () =	Ft.
	6", 7", 8", 10" Round, 90° elbow	15 Ft. x () =	Ft.
	6", 7", 8", 10" Round, 45° elbow	9 Ft. x () =	Ft.
Subtotal column 1 =			Ft.

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

Duct pieces		Equivalent number length x used =	Total
	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 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" 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.
	3-1/4" x 10" Rect. wall cap with damper	30 Ft. x () =	Ft.
	6", 7", 8", 10" Round, wall cap with damper	30 Ft. x () =	Ft.
	6", 7", 8", 10" Round roof cap	30 Ft. x () =	Ft.
Subtotal column 2 =			Ft.
Subtotal column 1 =			Ft.
Total ductwork =			Ft.

Installation – Mounting Height & Clearance



Hood Heights	Standard Duct Cover	Extension Duct Cover
minimum ducted (A)	30"	49"
maximum (B)	42-1/2"	80"
Ceiling Heights		
minimum ducted (C)	90" (7' 6")	109" (9' 1")
maximum (D)	112-1/2" (9' 4-1/2")	150" (12' 6")

DUCTING

A minimum of 8" round duct must be used to maintain maximum air flow efficiency for single internal blower and 10" round duct for dual internal blower.

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 hood duct output and as far apart, between the two as possible.

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

Maximum mount height should be no higher than 34".

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.

Vertical Ducting:

8" round minimum (single internal blower)

10" round minimum (dual internal blower)

Horizontal Ducting:

8" round minimum (single internal blower)

10" round minimum (dual internal blower)

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.

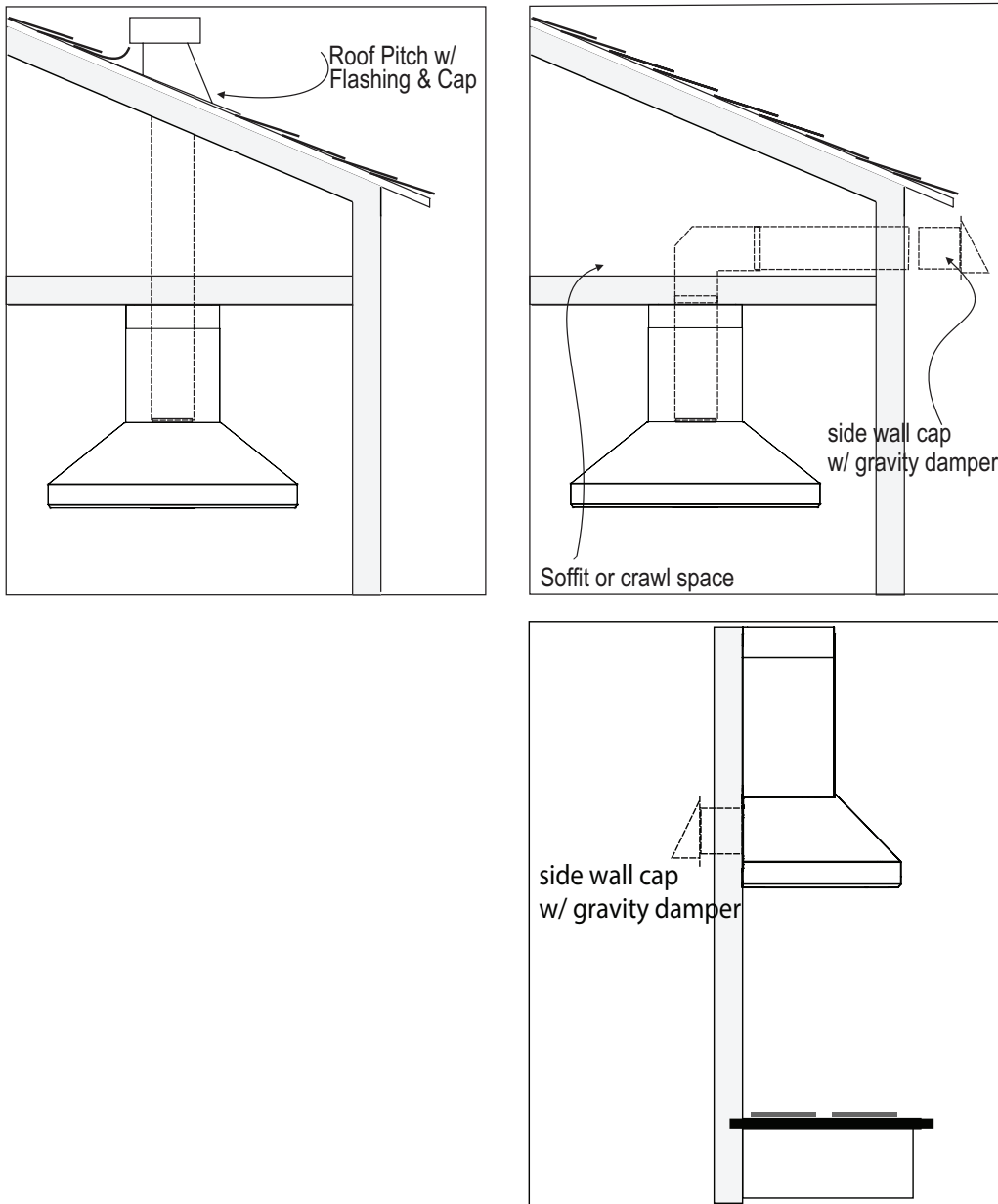
WARNING FIRE HAZARD

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.

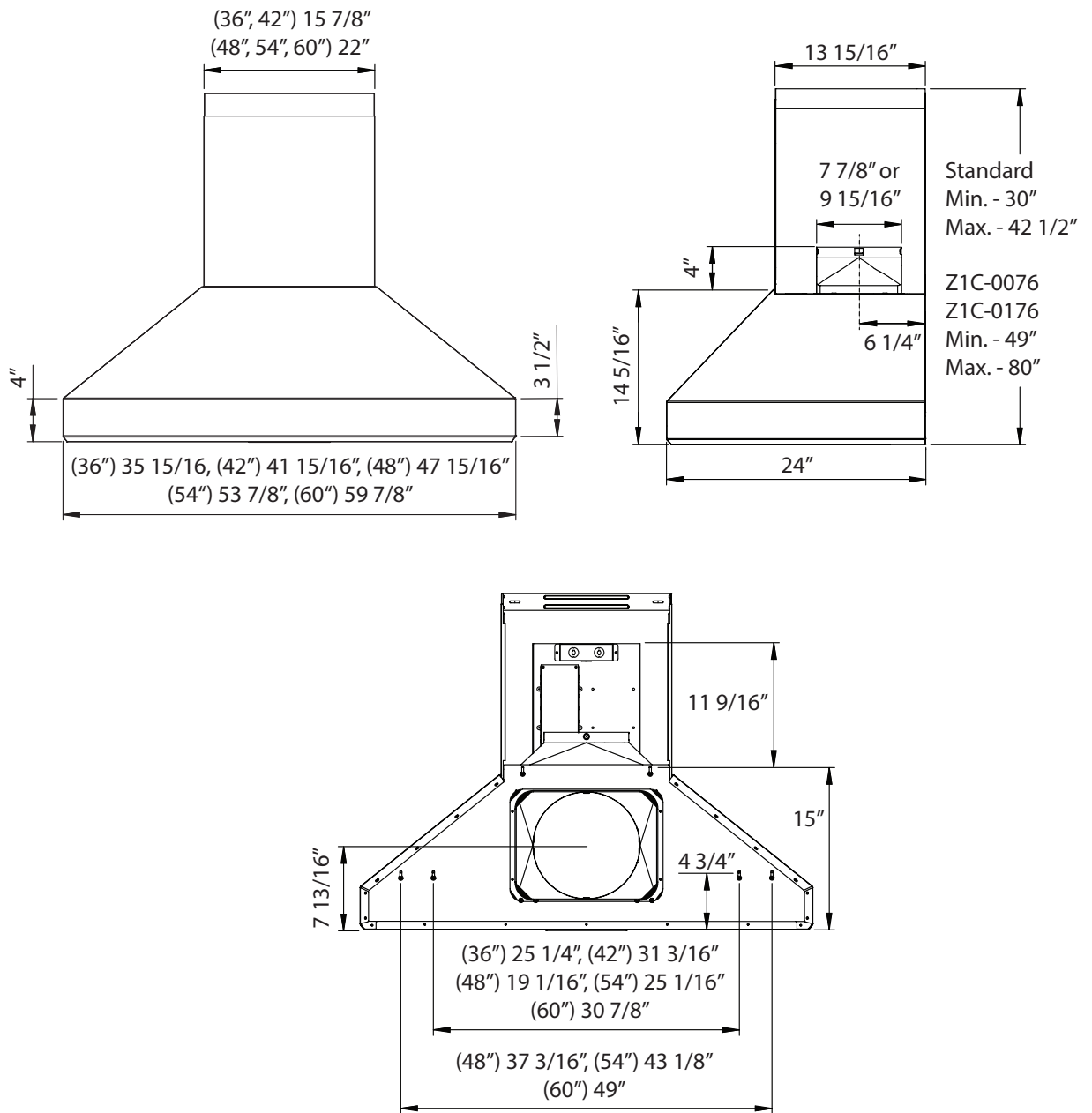
Use rigid metal ductwork only.

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

Some Ducting Options

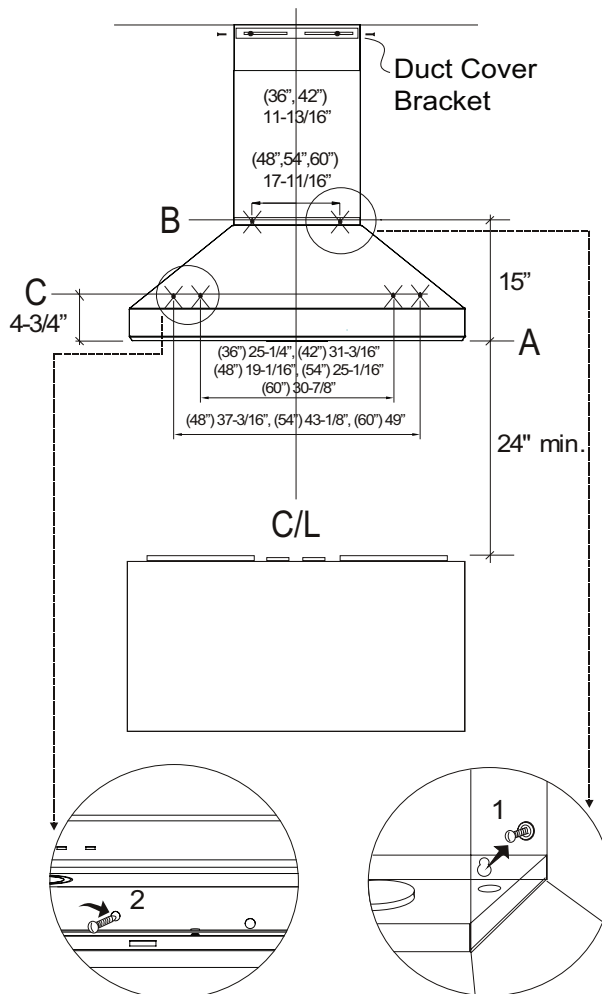


Installation – Specifications



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

1. Measure from range top to hood bottom and mark line A. (24" minimum from range top).
2. Plum and mark center line.
3. Mark mounting height line B. (15" from line A)
4. Mark mounting height line C. (4-3/4" from line A)
5. Mark mounting spread from C/L on line B and C according to diagram.
6. Fasten (2) 6# x 2" screws into studs on line B. Fasten (2) or (4) 6# x 2" screws into studs on line C. Do not fasten screws all the way, leave approximately 3/8" exposed. **Note: wood blocking may need to be added behind the drywall if no studs are present. Wall anchors may also be used but check local codes for compliance. Failure to use suitable wall anchors and screws to hold the weight of the hood could result in personal injury or damage to cooking surface or counter.**
7. Install round duct collar with backdraft damper to top or rear of hood by (4) M4x8 screws.
8. If ducting hood through rear of hood body, cut duct access hole in wall and prepair ducting.
9. Hang hood onto wall mounted screws and tighten. (FIG. A #1)
10. Center and attach duct cover bracket to wall below ceiling or soffit using (2) 6# x 1 1/2" screws.
11. Prepair and connect electrical and install duct work and duct tape.
12. Power up hood and check for leaks around duct tape.
13. Place telescopic duct covers onto hood and extend inner (top) duct cover upwards and secure to duct cover bracket using (2) M4x8 screws.



Installation – Mounting the Range Hood

⚠ WARNING: Electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards. This range hood must be properly grounded. Turn off electrical power at service entrance before wiring.

Warning:

For personal safety, remove house fuse or open circuit breaker before beginning installation. Do not use extension cord or adaptor plug with this appliance.

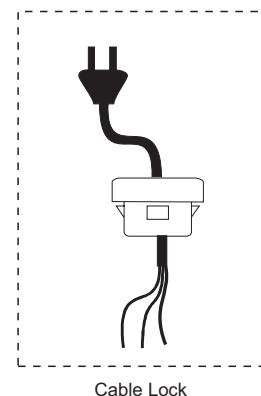
Follow national electrical codes or prevailing local codes and ordinances.

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 refer to Electrical Diagram labeled on product.

Cable Lock:

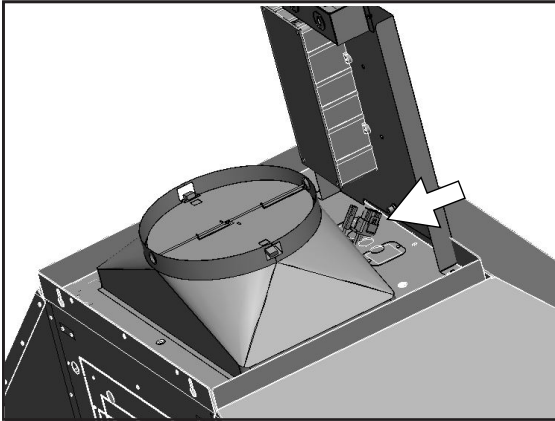
A cable locking connector (not supplied) might also be required by local codes. Check with local requirements and codes, purchase and install appropriate connector if necessary.



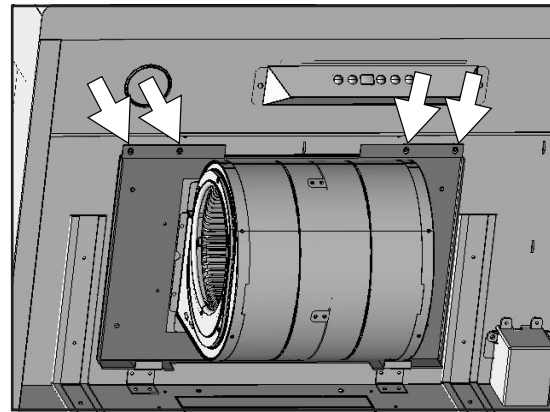
Installation – Single Blower Horizontal Ducting Conversion

This range hood is equipped standard with a 8" round vertical duct option. To convert from 8" round vertical to 8" round horizontal ducting or 3-1/4" x 10" rectangular horizontal ducting please following the instructions below.

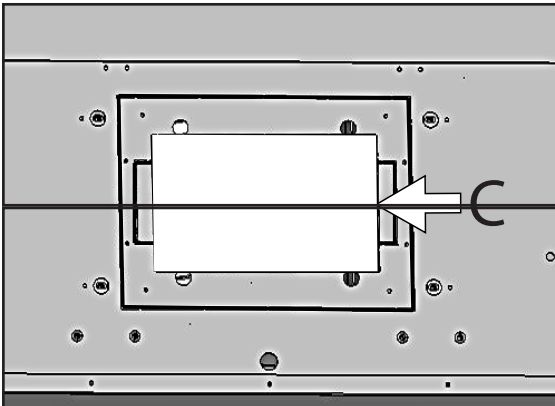
VERTICAL TO HORIZONTAL DUCTING CONVERSION



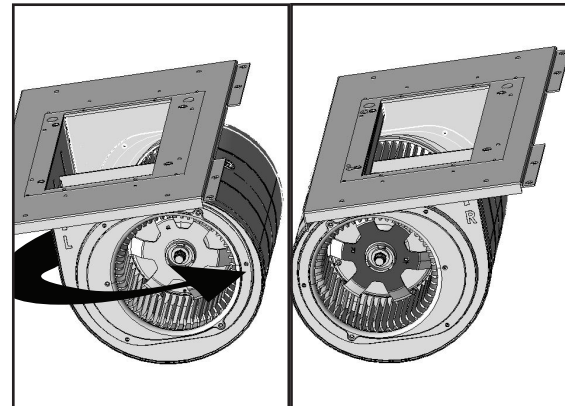
1. Disconnect blower plug and white and black power cables.



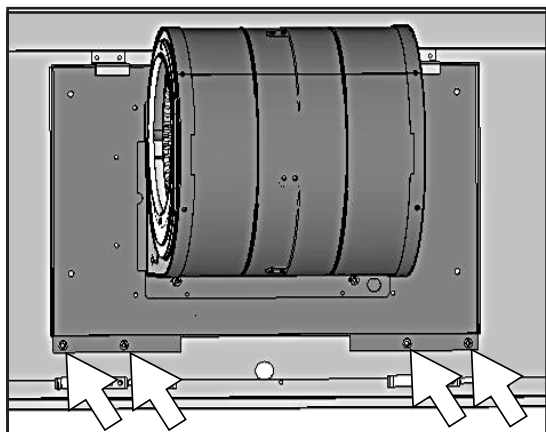
2. Remove (4) screws from interior of hood body attaching single blower plate to top of hood body. Remove single blower and single blower plate.



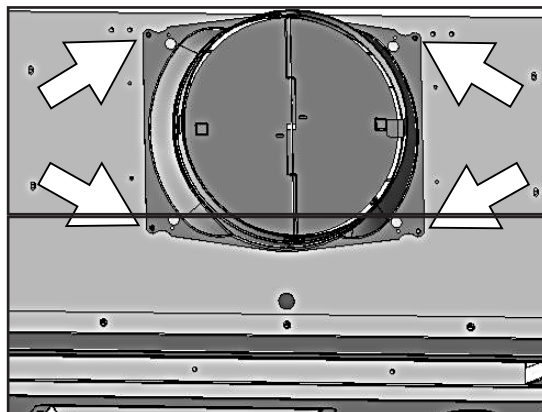
3. Knock out rear plate C for 8 inch round rear ducting.



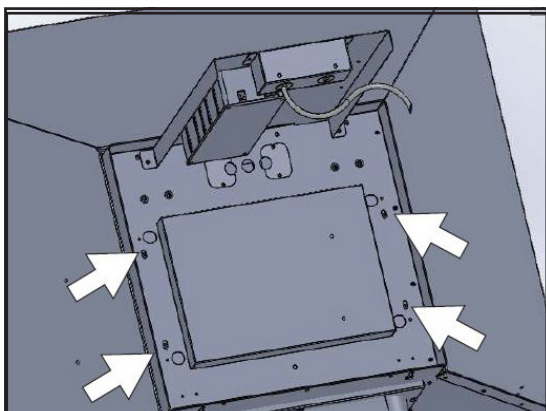
4. Remove (4) screws attaching blower to blower plate. Turn blower 180 degrees and reattach to blower plate.



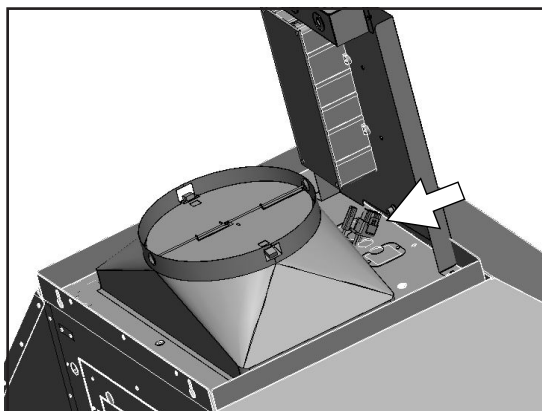
5. Position single blower with single blower plate as shown. Be sure to tuck back of single blower plate into tabs at back of hood. Secure single blower plate to back of hood using (4) screws removed from step 2.



6. Attach 8" round duct collar to back of hood body using (4) M4 x 8 screws.



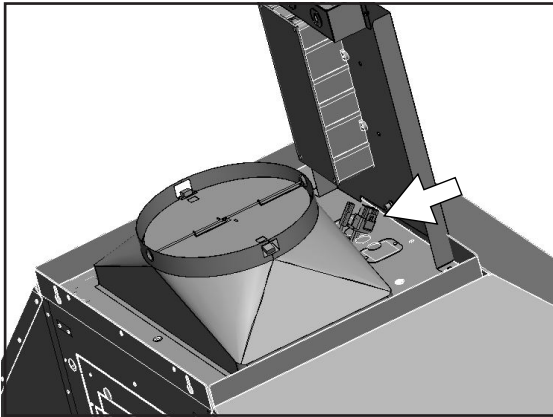
7. From inside hood body, position top cover plate to top of hood body. From outside hood body, attach top cover plate to top of hood body using (4) 3/16 x 3/8 screws.



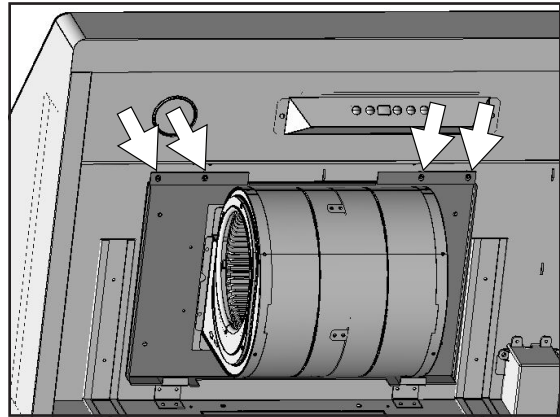
8. Connect single and dual blower PCB blower plug and white and black power cables.

Installation – PBD-1300A Dual Blower Vertical Ducting

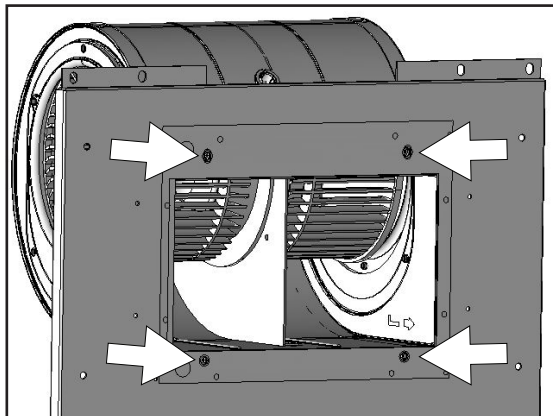
This range hood is equipped standard with a single blower vertical ducting option. To convert from single blower vertical ducting to dual blower vertical ducting please following the instructions below.



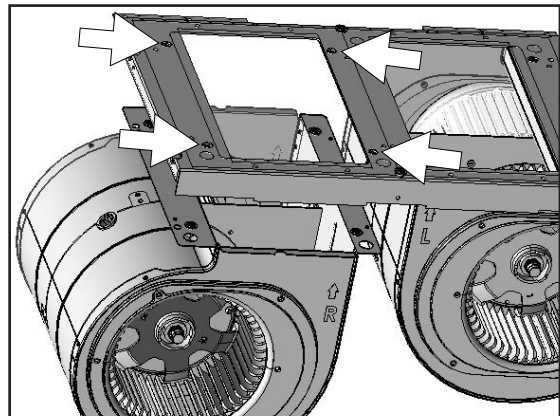
1. Disconnect blower plug and white and black power cables.



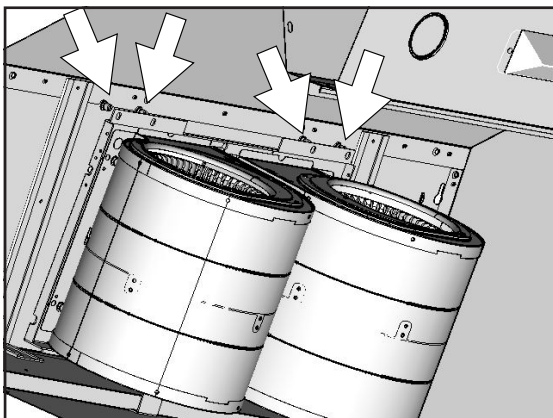
2. Remove (4) screws from interior of hood body attaching single blower plate to top of hood body. Remove single blower and single blower plate.



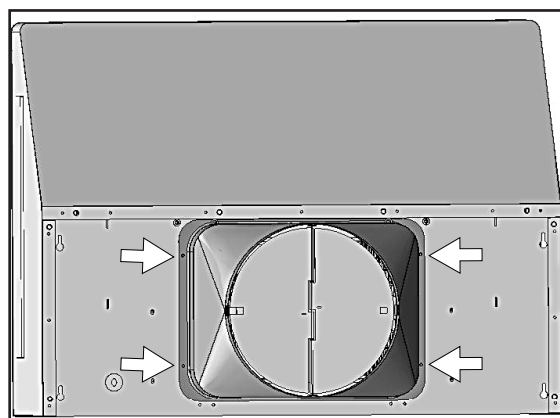
3. Remove (4) screws attaching single blower to single blower plate.



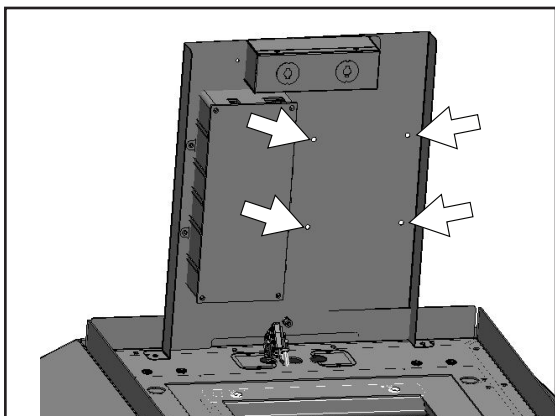
4. Attach single blower to dual blower plate by (4) previously removed screws from step 3.



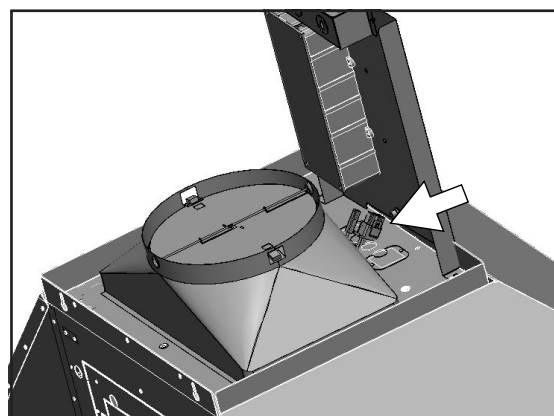
5. Position dual blower inside hood body as shown. Be sure to tuck dual blower plate into blower plate tabs. Secure dual blower by (4) screws previously removed from step 2.



6. Attach 10" round blower collar to top of hood body by (4) M4 x 8 screws. Connect blower wire extension cable to new blower and connect plugs from each blower to female plugs behind switch panel.

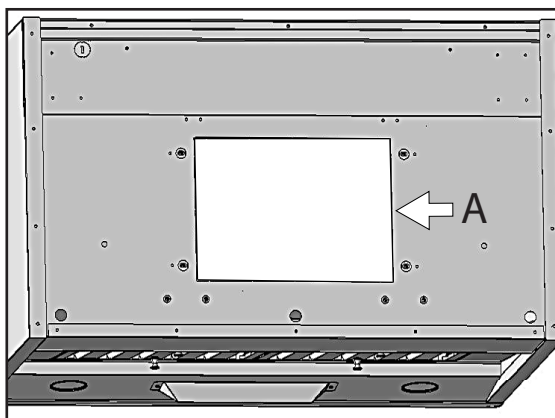


7. Attach dual blower PCB box to electronics bracket by (4) screws.

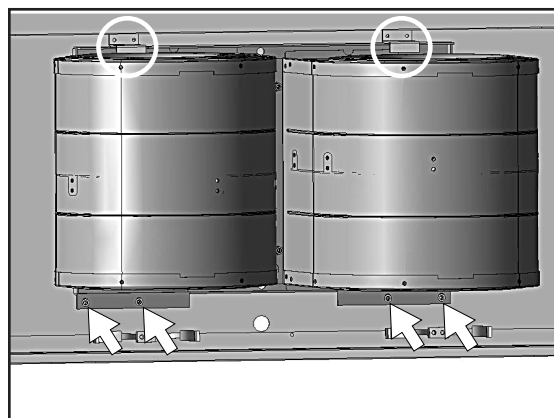


8. Connect single and dual blower PCB blower plug and white and black power cables.

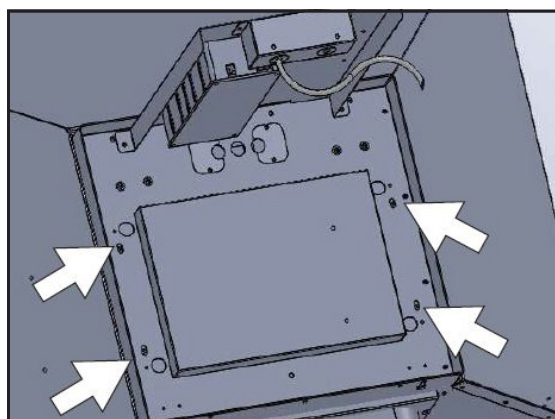
Follow Steps 1 through 4 on page 13, then continue PBD-1300A horizontal ducting installation by following the steps below.



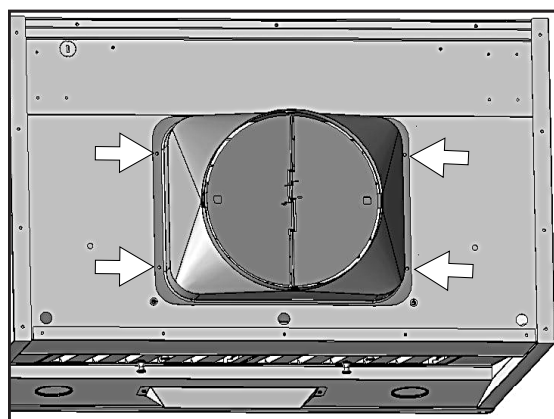
5. Knock out plate A for dual blower horizontal ducting.



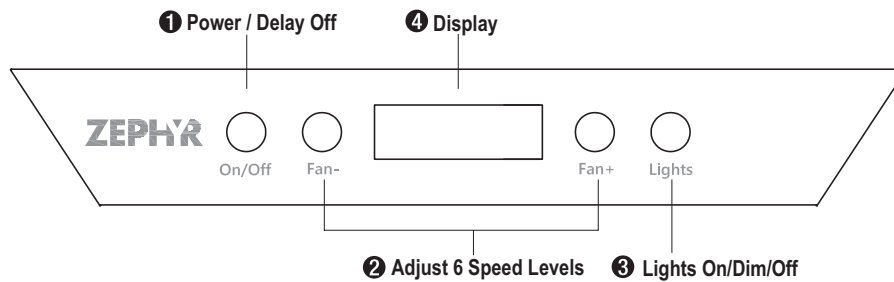
6. Position dual blower inside hood body. Attach by (4) screws previously removed from step 2.



7. From inside hood body, position top cover plate to top of hood body. From outside hood body, attach top cover plate to top of hood body using (4) 3/16 x 3/8 screws.



8. Attach 10 inch round blower collar to back of hood using (4) M4 x 8 screws. Connect blower wire extension cable to new blower and connect both plugs from each blower to female plugs behind switch panel.



1. Power / Delay Off

Power Button Function

On/Off button will turn power on and off for entire hood (fan and lights). The hood will remember the last speed and light level it was turned off at.

Delay Off Button Function

With the fan on, press and hold the On/Off button for three seconds. The fan will change to speed 1 and the 10 minute delay off timer will start. A countdown timer will show on the display indicating the time left until the fan and lights automatically turn off.

Pressing the On/Off button while the Delay Off Function is enabled will turn the hood off and cancel the Delay Off Function.

ACT™ Verification

Airflow Control Technology (ACT™) allows the installer to set the maximum blower CFM to align with local codes and regulations.

To verify the maximum blower CFM:

With hood off, hold the On/Off button for three seconds. The Display will show if ACT™ is disabled and set to the maximum CFM or if ACT™ is enabled and set to one of the restricted maximum CFM levels of 590, 390 or 290.

2. Speed Selection

The 6 speed levels are selected by pressing Fan - to decrease and Fan + to increase speed levels. The Display indicates the speed level selected.

ACT™ Enabled Speed Selections

When ACT™ is enabled, the number of fan speeds will be reduced to Maximum 3 speeds.

3. Lights On/Dim/Off

Switch lights on by pressing Lights button once, press a second time to dim and again to shut off lights.

4. Display

The display window indicates speed levels and features such as baffle filter clean reminder, delay off and clean air indicator.

Filter Clean Reminder

After 30 hours of fan usage the words "Clean grease filters" will show on the Display indicating it is time to clean the filters.

To Reset: With hood off, hold the Fan - button for 3 seconds until the display words "Clean grease filters" turns off

Clean Air

Clean Air is a feature that turns the fan on every 4 hours for 10 minutes to remove stagnant air in the kitchen.

To enable Clean Air Function:

With hood off, hold the Fan - button and Fan + button simultaneously for three seconds. The words "CleanAir Function Activated" will illuminate and the fan will turn on speed 1 for 10 minutes. After 10 minutes the fan will turn off and the 4 hour timer will begin.

To disable Clean Air Function:

With hood off, hold the Fan - button and Fan + button simultaneously for three seconds. The words "CleanAir Function Deactivated" will illuminate indicating the function has been disabled.

When the Clean Air Function is enabled the fan will turn on speed 1 for 10 minutes every 4 hours of non fan usage. After 10 minutes the fan will turn off and the 4 hour timer will reset.

If the user changes the fan speed while the Clean Air Function is in use, the Clean Air Function will stop. If the user presses the On/Off button at any time the 4 hour Clean Air timer will reset.

Optional Remote Control Pairing

To create a unique link between your hood and optional remote control please follow these steps.

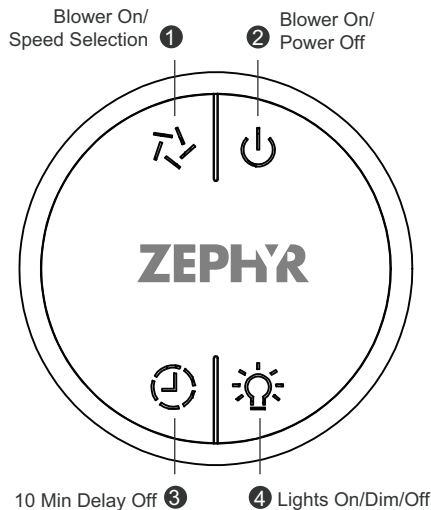
With Hood off, press and hold the Lights button until the Display shows the words "Remote Pairing..." then press any button on the remote, the Display will then show the words "Remote Paired" indicating the remote control pairing is complete.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral device. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

REMOTE PAIRING: To create a unique link between your hood and remote control please follow these steps:

1. With hood off, press and hold the "lights" button on the hood until "Remote Pairing" shows on the display screen.
2. Press the any button on the remote, the display will show "Remote Paired" indicating the pairing is complete.

RF REMOTE FUNCTIONS:



1 Blower On / Speed Selection

Press to power on blower and cycle through all six blower speeds.

2 Blower On / Power Off

By pressing , the blowers will power on at the last speed setting. Press again and the entire hood will power off, including lights.

3 Delay Off

By pressing , the blower and lights will enter Delay Off mode. The blower will change to speed 1 and shut down after 10 minutes.

4 Lights On / Dim / Off

Switch lights On by pressing once, again to dim and again to switch Off.

RF REMOTE FEATURES:

The RF remote control is equipped with a magnet on the back for easy storage. The remote may be placed on any magnetic surface such as a refrigerator or the Zephyr remote holder, FIG. 1. The remote holder can be inserted into a standard electrical outlet for easy storage. Note: The remote holder does not charge the RF remote.

Maximum remote control communication distance is 15 feet from the hood.

RF REMOTE MAINTENANCE:

Clean the remote control using non abrasive detergents

Follow instructions below for replacing battery.

Using a small flat head screwdriver, raise the cover of the battery door (A) in order to access the battery compartment. FIG. 2.

Remove the battery and replace with battery type **A23 12V**.

Negative end of battery should face the spring inside the remote.

Re-install battery door and recycle old battery.

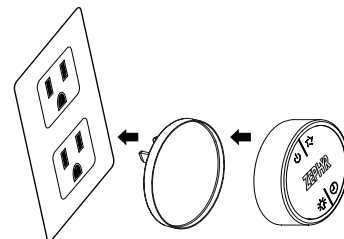


FIG. 1

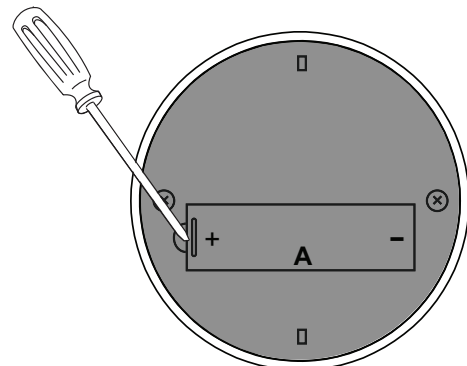


FIG. 2

THE RF REMOVE CONTROL IS AN OPTIONAL ACCESSORY NOT INCLUDED WITH THE HOOD AND MUST BE PURCHASED SEPARATELY

SURFACE MAINTENANCE:

Do not use corrosive detergents, abrasive detergents or oven cleaners.
 Do not use any product containing chlorine bleach or any product containing chloride.
 Do not use steel wool or abrasive scrubbing pads which will scratch and damage surface.

Cleaning Stainless Steel

Clean periodically with warm soapy water and clean cotton cloth or micro fiber cloth. Always rub in the direction of the stainless steel grain. To remove heavier grease build up use a liquid degreaser detergent.

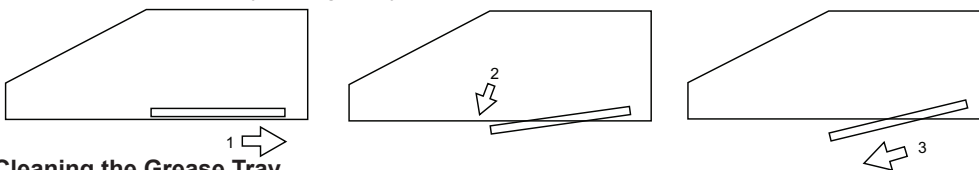
After cleaning use a non-abrasive stainless steel polish/cleaners, to polish and buff out the stainless luster and grain. Always scrub lightly, with clean cotton cloth or micro fiber cloth and buff in the direction of the stainless steel grain.

Stainless Steel Baffle Filters

The stainless steel baffle filters are intended to trap residue and grease from cooking. Although the filters should never need replacing, they are 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.

Removing Baffle Filters

1. Push filter toward back of range hood using handles.
2. Pivot front of filter downward.
3. Remove filter by pulling away from hood.

**Cleaning the Grease Tray**

The grease tray is intended to catch residue and grease that may drip from the baffle filters. The grease tray should be cleaned when baffle filters are cleaned. Clean the grease tray by soaking in hot soapy water and gently scrubbing any residue off with a soft terry cloth. Dry grease tray and re-install before using hood.

REPLACING LIGHT BULBS

Make sure all power is turned off.

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 a glass suction cup approximately the diameter of the bulb or use a rubber/latex glove and turn counter clockwise. FIG. 3.

Directional Lighting

The light bulbs can be tilted forwards and backwards to better direct light over your cooking surface. FIG. 4.

Replacement bulbs are available to purchase directly from Zephyr. Purchase online at <http://store.zephyronline.com> or call us at 1.888.880.8368

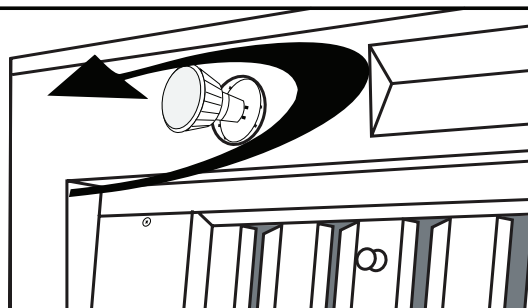


FIG. 3

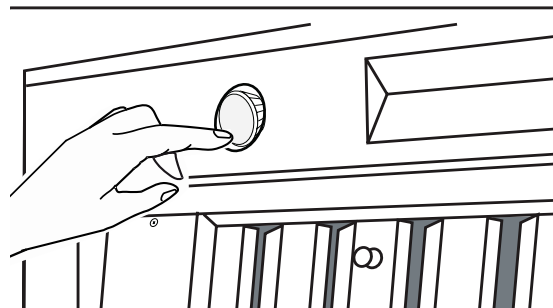


FIG. 4

TROUBLESHOOTING PROCEDURES

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. The wires on control board are loose.	4. Make sure the wires on the control board are connected properly.
	5. The switch board or control board is defective.	5. Change the switch board or control board.
Light works, but the 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 cool down.
	3. Damaged capacitor.	3. Change the capacitor.
	4. The blower wire is not connected.	4. Make sure the blower wire is plugged into the molex connector.
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 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. Check the light bulb plug connection.
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 24" and 34" 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. Blockage 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 correct size.
Metal filter is vibrating.	1. Metal filter is loose.	1. Change the metal filter.
	2. Spring clip is broken.	2. Change the spring clip.
The blower turns on by itself.	1. The clean air function has been enabled turning the blower on every 4 hours.	1. Disable the clean air function by following the steps on page 14.

Airflow Control Technology (ACT™)

Some local codes limit the maximum amount of CFM a range hood can move. ACT™ allows you to control the maximum blower CFM of select Zephyr Ventilation range hoods without the need for expensive make up air kits. ACT™ enables the installer to easily set the maximum blower speed to one of two most commonly specified CFM levels; 590, 390 or 290 CFM. The usage of ACT™ may not be necessary for your installation. Please check your local codes for CFM restrictions.

By default the maximum blower CFM is set to 750.

ACT™ NOT AVAILABLE WITH 1300 CFM DUAL INTERNAL BLOWER OPTION**CAUTION:**

Hood must be disconnected from main power prior to performing the conversion instructions listed below. Failure to do so could result in personal injury or damage to the product.

To enable ACT™

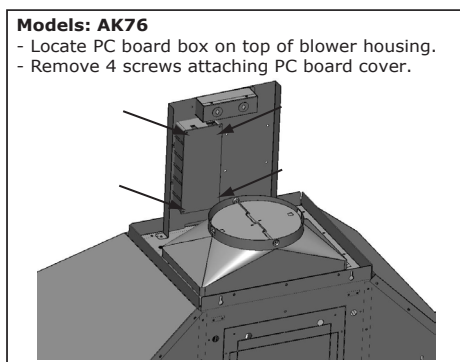
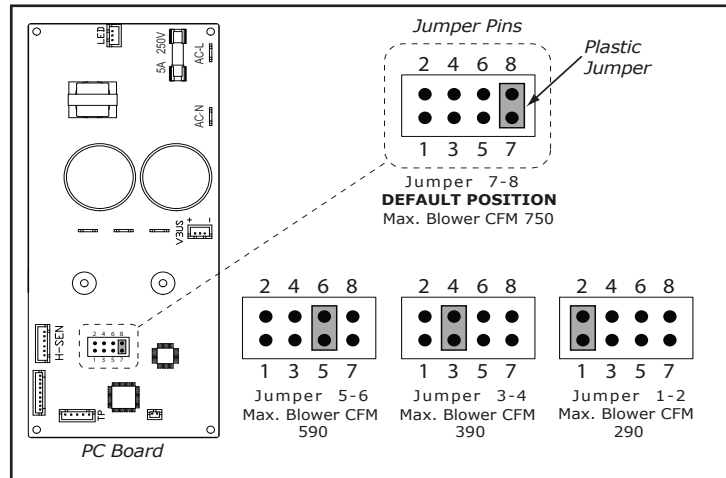
1. Before hood installation, gain access to PC board by following the steps shown in FIG. C.
2. Change plastic jumper positioning as shown in FIG. D to set the desired maximum blower CFM.
3. Re-install PC board & continue with hood installation.
4. Remove the appropriate foil CFM sticker included with the hood literature and place inside the hood body below the wiring diagram or in another clearly visible location.

NOTE: After re-positioning the jumper and powering on the hood, the CFM cannot be changed again.

To verify if your installer enabled ACT™

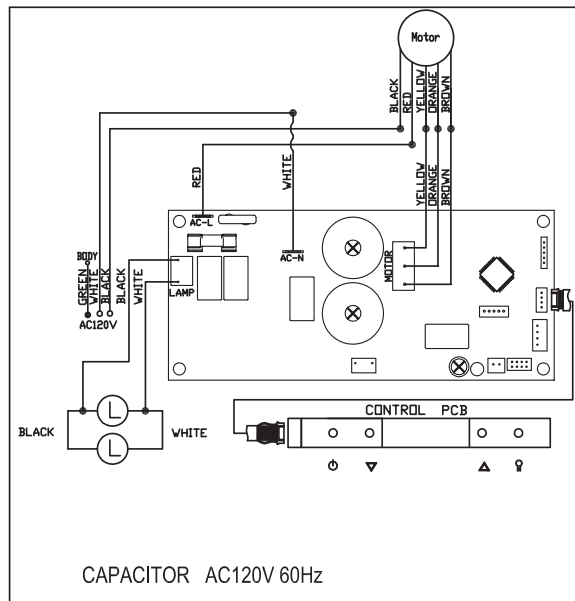
With hood off, hold the On/Off button for three seconds. The Display will show if ACT™ is disabled and set to the maximum CFM or if ACT™ is enabled and set to one of the restricted maximum CFM levels of 590, 390 or 290.

There should also be a foil label located inside the hood body near the wiring diagram that indicates the blower CFM.

**FIG. C****FIG. D**

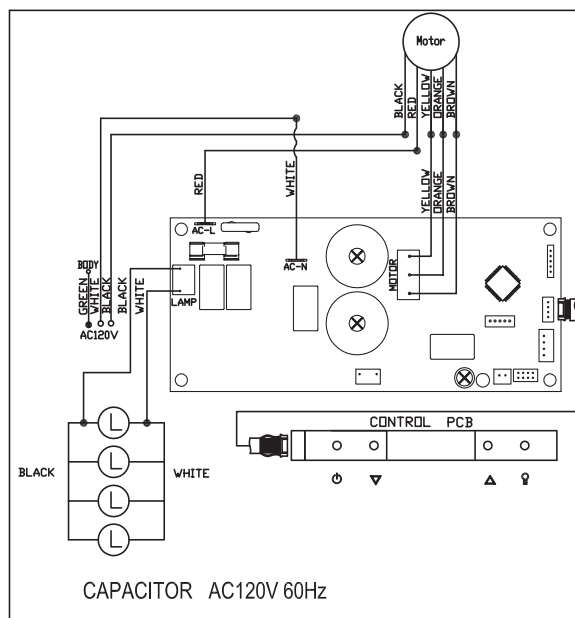
AK7636AS
Models: AK7642AS
Voltage: 120V 60HZ 4A
Power consumption
Total: 286W
Lamp: 13W
Fan: 273W

THERMALLY PROTECTED



AK7648AS
AK7654AS
Models: AK7660AS
Voltage: 120V 60HZ 4.2A
Power consumption
Total: 299W
Lamp: 26W
Fan: 273W

THERMALLY PROTECTED



ACT 590 CFM - Fan Max. 175W @ 2.6A
ACT 390 CFM - Fan Max. 94W @ 1.4A
ACT 290 CFM - Fan Max. 63W @ 0.9A

List of Parts and Accessories

DESCRIPTION	PART #
Replacement Parts	
LED Light Bulb MR16 (GU10) 6W (each)	Z0B0040
Baffle Filter (each)	50210031
Optional Accessories	
Dual Internal Blower	PBD-1300A
Duct Cover Extension (36" & 42")	Z1C-0076
Duct Cover Extension (48", 54" & 60")	Z1C-0176
Make-Up Air Kit (Single Blower)	MUA008A
Make-Up Air Kit (Dual Blower)	MUA010A

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 Ventilation, LLC (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 (including LED light bulbs, if applicable) to replace those that failed due to manufacturing defects subject to the exclusions and limitations below. 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 subject to the exclusions and limitations below. 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 fluorescent, incandescent or halogen light bulbs, mesh and charcoal 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 or government 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; (g) damage to the Products caused by accident, fire, floods, acts of God; or (h) Custom installations or alterations that impact serviceability of the Products. 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. All Products must be installed by a qualified professional installer to be eligible for warranty repairs or service.

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 three-year and one-year periods described above if permitted by applicable law. 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 only applies to the consumer residence where the Product was originally installed located in the United States and Canada. This warranty is not extended to resellers.

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 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. This warranty is not extended or restarted upon warranty repair or replacements.

Please check our website for any additional Product information, www.zephyronline.com.

Zephyr Ventilation Service Department, 2277 Harbor Bay Parkway, Alameda, CA 94502 1-888-880-8368

PRODUCT REGISTRATION

Congratulations on your Zephyr range hood purchase! Please take a moment to register your new range hood at **www.zephyronline.com/registration**

IT'S IMPORTANT

Prompt registration helps in more ways than one.

- Ensures warranty coverage should you need service.
- Ownership verification for insurance purposes.
- Notification of product changes or recalls.



Zephyr Ventilation | 2277 Harbor Bay Pkwy. | Alameda, CA 94502 | 1.888.880.8368