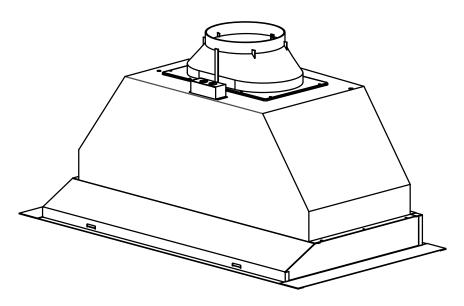
Jse, Care, and Installation Guide

Willow

AK8800AS AK8800AG



INTENDED FOR OUTDOOR COVERED PATIO OR LANAI AREA.

SP®	
C US	
Model number:	
Serial Number:	
Date of Purchase:	
Sales Dealer:	

APR14.0201 © 2014 Zephyr Corporation

READ AND SAVE THESE INSTRUCTIONS

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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
- c. This unit must be grounded and protected by a GFCI.
- d. Suitable for use in damp locations only when installed in a GFCI PROTECTED branch-circuit.

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
- 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.

AK8800Ax - 710W, 6 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.

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

SUITABLE FOR USE IN DAMP LOCATIONS WHEN INSTALLED IN A **GFCI PROTECTED BRANCH-CIRCUIT**. INTENDED FOR OUTDOOR COVERED PATIO OR LANAI AREA.

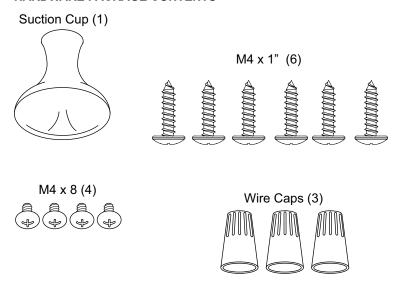
List of Materials

MODELS: AK8800AS AND AK8800AG

PARTS SUPPLIED

- 1 316S High quality stainless steel Power Pack (AK8800AS) or
- 1 Gray powder coated Power Pack (AK8800AG)
- 2 Baffle filters
- 2 Halogen light bulbs (pre-installed)
- 1 Dual internal blower (pre-installed)
- 1 8" round adapter
- 1 Hardware package

HARDWARE PACKAGE CONTENTS



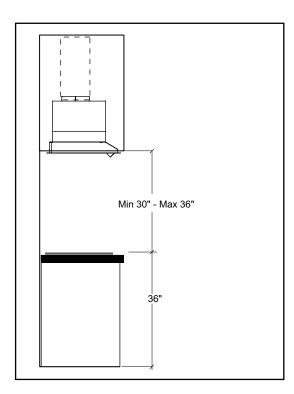
PARTS NOT SUPPLIED

- Ducting, conduit and all installation tools
- Cable connector (if required by local codes)
- Optional stainless steel hood liner (AK08xxAS)

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



Minimum mount height between range top to hood bottom should be no less than 30".

Maximum mount height should be no higher than 36".

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.

AK8800Ax Vertical Ducting: 8" round minimum (dual blower) Horizontal Ducting: N/A

DUCTING

A minimum of 8" round ducting 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 hood duct output and as far apart, between the two as possible.

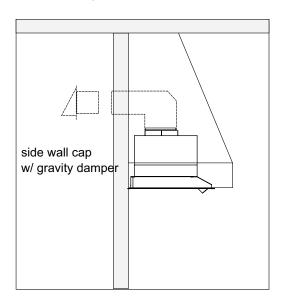
WARNING FIRE HAZARD

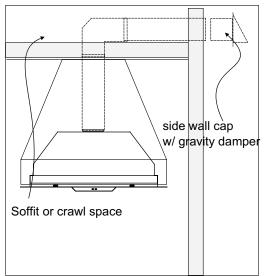
NEVER exhaust air or terminate duct work into spaces between walls, crawl spaces, ceiling, attics or garages. All exhaust must be ducted to the outside.

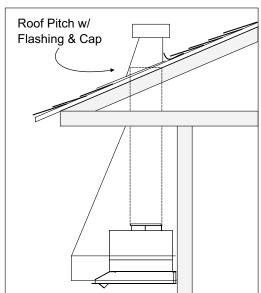
Use metal ductwork only.

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

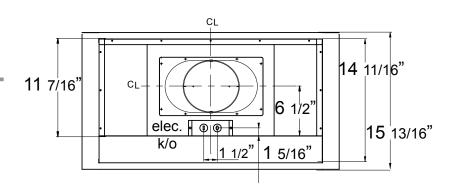
Some Ducting Options

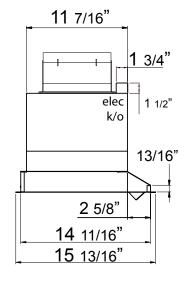




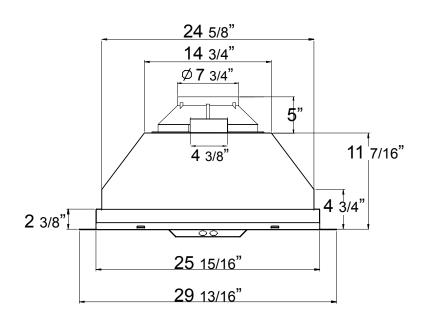


316 High Class Stainless Steel Body for AK8800AS





top side



front

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.

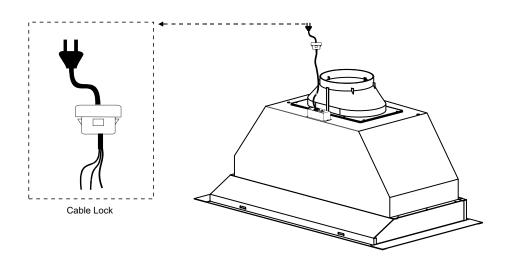
Follow national electrical codes or prevailing local codes and ordinances.

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.

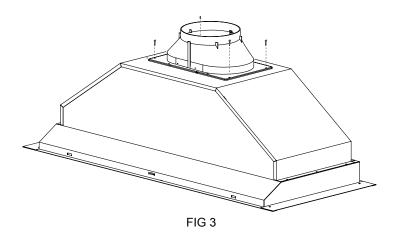


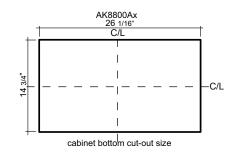
▲ CAUTION: The power cable must be a GFCI protected branch circuit.

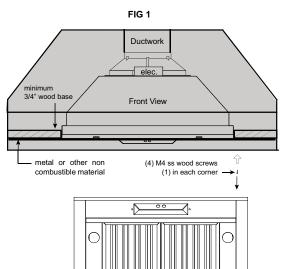
CAUTION: At least two installers are required due to the weight and size of the hood.

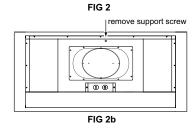
Remove support screw from top of Power Pack before installing into cabinet. FIG 2b

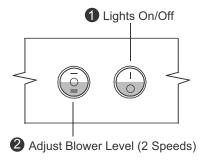
- Place 8" round adapter on top of power pack and secure with (4) M4x8 screws. (FIG 3)
- 2. Install optional AK088xAS Stainless Steel Liner under custom hood opening. Review manual included with liner for more details.
- 3. If no liner is used cut out an opening in the bottom of the cabinet by following the dimensions in (FIG 1).
- Lift Power Pack into opening and secure to bottom of cabinet using (4) M4 stainless steel screws, (1) in each corner; see (FIG 2).
 NOTE: Wood blocking may need to be added to cabinet base if additional support is needed.
- Install 8" round duct work and seal with duct tape. Depending on the contruction of the custom hood, the duct work may need to be installed on top of the Power Pack prior to mounting the Power Pack inside your custom hood.
- 7. Install electrical.
- 8. Remove all packing materials before using Power Pack. Switch power on and check for leaks around duct tape.











1 Light On/Off

By pressing b, the light is switched On and Off. $\ \ \$ 1 is on, $\ \ \bigcirc$ is off.

2 Blower Speed Selection

The 2 speed levels are selected by switching to - for level one and = for level two. Switching the rocker switch to middle \bigcirc will turn off the blower.

CAUTION: If this hood is installed in a salt water area (example: coast), rinse all surfaces once a week with clear water (even if the hood is not used), and wipe dry completely.

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.

Baffle Filters

The 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.

Installing Baffle Filters (FIG 4):

- Place filter into top groove of the power pack as shown and pull towards front of power pack using handles.
- 2. Pivot back of filter upwards so it is angled in the power pack.
- 3. Push filter into channel on back of power pack to lock into place.

Replacing/Ordering Baffle Filters:

Hood Model: Part No. Qty. to Order AK8800Ax 50210010 2

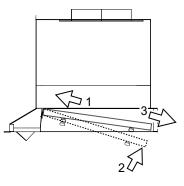


FIG 4

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.

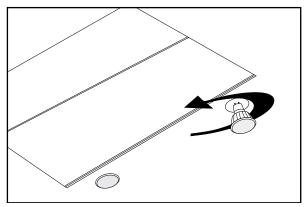
Make sure all power is turned off and bulbs are not hot.

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 a glass suction cup approximately the diameter of the bulb 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 15 of the manual.



Bottom View

TROUBLESHOOTING PROCEDURES FOR WILLOW

Issue	Cause	What to do
After installation, the unit doesn't	The power source is not turned ON.	Make sure the circuit breaker and the unit's power is ON.
work.	The power line and the cable locking connector is not connecting properly.	Check the power connection with the unit is connected properly.
	The switch board and control board wirings are disconnected.	Make sure the wirings between the switch board and control board are connected properly.
	4. The wires on control board are loose.	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,	The motor is defective, possible seized.	Change the motor.
but motor is not turning.	The thermally protected system detects if the motor is too hot to operate and shuts the motor down.	The motor will function properly after the thermally protected system cool down.
	3. Damaged capacitor.	3. Change the capacitor.
	4. The motor wire is not connected.	Make sure the motor wire is plugged into the molex connector.
The unit is	The motor is not secure in place.	Tighten the motor in place.
vibrating.	2. Damaged blower wheel.	2. Change the blower.
	3. The hood is not secured in place.	3. Check the installation of the hood.
The motor is working, but the lights are not.	Defective halogen bulb.	Change the halogen bulb.
	2. The light bulb is loose.	2. Tighten the light bulb.
	3. The wires on the control board are loose.	Make sure the wires on control board are connected properly.
The hood is not venting out properly.	The hood might be hanging too high from the cook top.	Adjust the distance between the cook top and the bottom of the hood within 26" and 36" range.
	The wind from the opened windows or opened doors in the surrounding area are affecting the ventilation of the hood.	Close all the windows and doors to eliminate the outside wind flow.
	Blockage in the duct opening or duct work.	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	Metal filter is loose.	Change the metal filter.
vibrating.	2. Spring clip is broken.(baffle filter)	2. Change the spring clip.
RF Remote control does not work	Battery is dead	Replace battery with type A23 12v
	2. Poor communication with the power pack	Remote control must be within 15 ft of power pack
	3. RF remote lost communication with power pack	Reset power pack and remote by switching power off at the circuit breaker for 5 minutes. Pace remote on counter top near power pack and switch the circuit breaker back on.

DESCRIPTION	PART#				
Replacement Parts					
Light Bulb MR16 (GU10) 35W (each) Baffle Filter (each)	Z0B-0023 50210010				
Optional Accessories					
Liner, 36"	AK0886AS				
Liner, 42"	AK0882AS				
Liner, 48"	AK0888AS				
Liner, 54"	AK0884AS				

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



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 (including LED light bulbs, if applicable) 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 incandescent or halogen 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, CONSE-QUENTIAL 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 WARRAN-TIES 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.