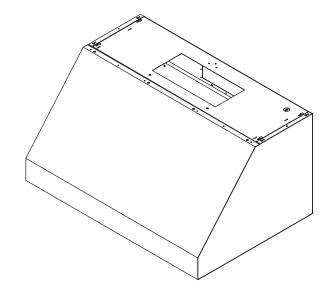
Jse, Care, and Installation Guide

RH70230CS RH70236CS RH70248CS



Model number:	

Serial Number:



OCT22.0301

SAFETY NOTICE	2-3
LIST OF MATERIALS	4
INSTALLATION	
Ducting Calculation Sheet	6 7 8 9
CONTROLS	
Electronic Touch	11
MAINTENANCE	
Cleaning, Filters & Lights	12
CFM SELECT CONVERSION	13
TROUBLESHOOTING	14
WIRING DIAGRAMS	15
LIST OF PARTS AND ACCESSORIES	16
WARRANTY	17

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.

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.

Prop. 65 Warning for California Residents



WARNING:

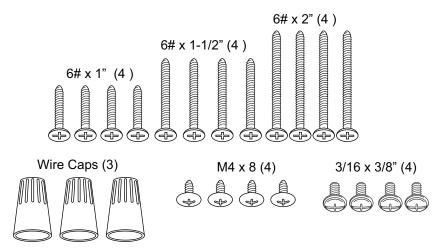
Cancer and Reproductive Harm - www.P65Warnings.ca.gov

MODELS: RH70230CS, RH70236CS, RH70248CS

PARTS SUPPLIED

- 1 Hood
- 3 Pro baffle filters (2 for RH70230CS)
- 2 LumiLight LED (pre-installed)
- 1 10" round transition adapter
- 1 Top Ducting Cover Plate
- 1 Hardware package

HARDWARE PACKAGE CONTENTS



PARTS NOT SUPPLIED

- Ducting, conduit and all installation tools
- Cable connector (if required by local codes)
- Duct Cover Accessory
- Backsplash Accessory
- Wood Board to hang hood (WxDxH)

RH70230CS - 27" x 1/2" x 4"

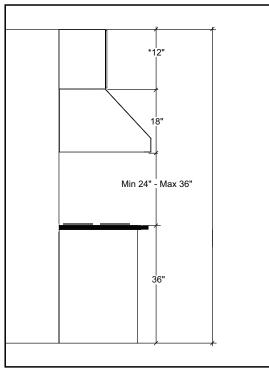
RH70236CS - 33" x 1/2" x 4"

RH70248CS - 45" x 1/2" x 4"

Duct pieces	ct pieces Equivalent number length x used =				Takal
	3-1/ 4" x 10" Rect., straight	1 Ft.	x () =	Total 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 column1 =					Ft.

Maximum Duct Length: For satisfactory air movement, the total duct length should not exceed 150 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" roundto 3-1/4" x 10" rect. transition	1 Ft.	x () =		Ft.
	6" roundto 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	colum	ın2 =		Ft.
	;	Subtotal	colum	ın1 =		Ft.
		Total duc	twork	=		Ft.



*optional 12" duct cover

DUCTING

A minimum of 10" 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 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 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.

Vertical Ducting:

10" round minimum

Horizontal Ducting:

10" round minimum

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 of replacement must be made by arrangement between customer and installer.

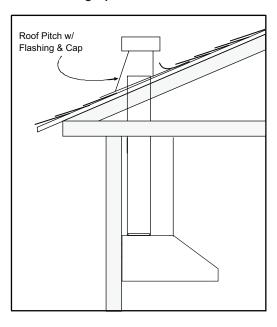
WARNING FIRE HAZARD

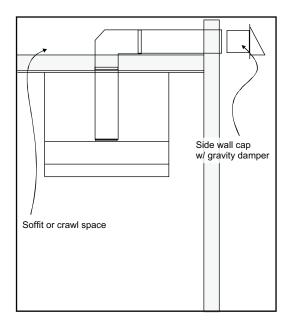
NEVER exhaust air or terminate duct work into spaces between walls, crawl spaces, ceiling, attics or garages. All exhaust must be ducted to the outside.

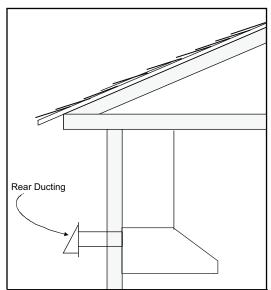
Use metal ductwork only.

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

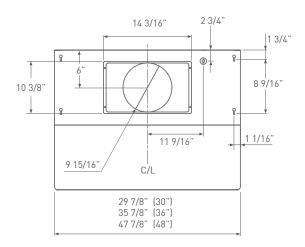
Some Ducting Options



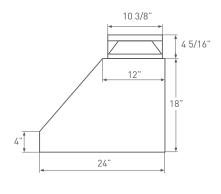




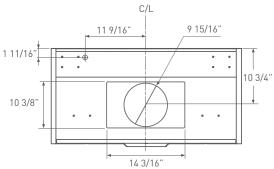
Top View



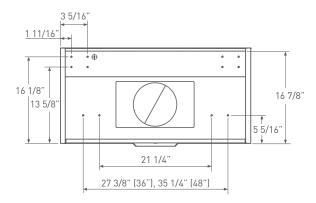
Side View



Back View
Ducting & Electrical Dimensions



Back View Mounting Dimensions



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

- Select preferred ducting application (vertical or horizontal) and prepare hood. Refer to page 11 for dual blower horizontal ducting.
- 2. Plum and mark center line.
- 3. Choose desired height above cooking surface **(24" min)**. Level and mark line A (hood bottom).
- 4. Level and mark top of wood board line B, 16 7/8" from line A.
- Mark center line of wood board. Center and align top of board with line B. Secure wood board to studs using (4) M4 wood screws. Wood Board Dimensions: (W x D x H)

RH70230CS - 27" x 1/2" x 4" RH70236CS - 33" x 1/2" x 4"

RH70248CS - 45" x 1/2" x 4"

- 6. Prepare duct pipe and duct cut outs in upper cabinet or ceiling if vertical ducting or prepare cut outs and ducting in wall If horizontally ducting hood. Refer to hood specifications on page 8 for dimensions.
- Prepare electrical wiring and electrical cut outs in upper cabinet or ceiling if vertical ducting or prepare cut outs and electrical in wall if horizontaly ducting.
- 8. Mount hood onto wood board and secure using (8) M4 wood screws.
- Further secure hood onto wall through lower body screw holes by (2) M4 wood screws.
- 10. Install electrical.
- 11. Install duct work and seal with certified aluminum duct tape.
- 12. Power up hood and check for leaks around duct tape.
- 13. Install baffle filters.

ELECTRICAL

WARNING

All Electrical work must by 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.

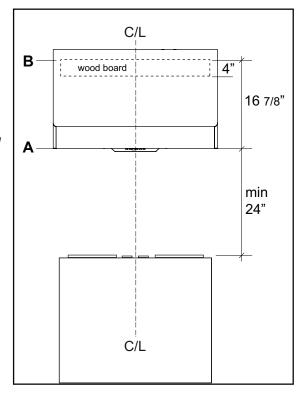
Follow national electrical codes or prevailing local codes and ordinances.

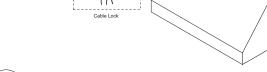
Electrical Supply:

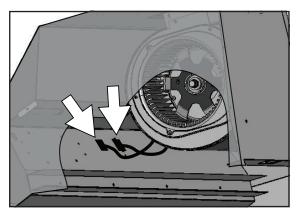
This appliance requires a 120V 60Hz electrical supply, and connected to an individual, properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse. Wiring must be 2 wire w/ ground. Please also refer to Wiring Diagram on page 15 or Electrical Diagram labeled on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

Cable Lock:

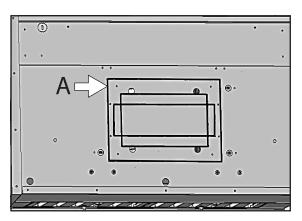
A cable locking connector (not supplied) might also be required by local codes. Check with local requirements and codes, purchase and install appropriate connector if necessary.



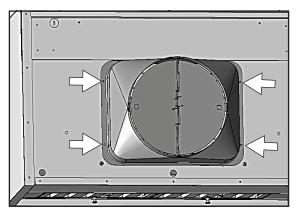




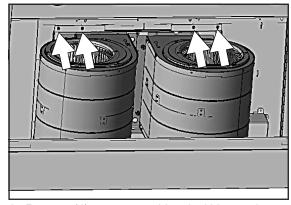
1. Disconnect both blower plugs.



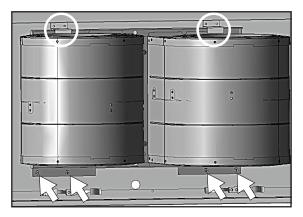
Remove knock out plate A from back of hood body using flat head screw driver and rubber mallet.



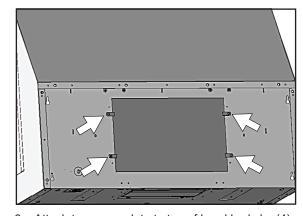
5. Attach 10" round collar to back of hood body by (4) M4 x 8 screws.



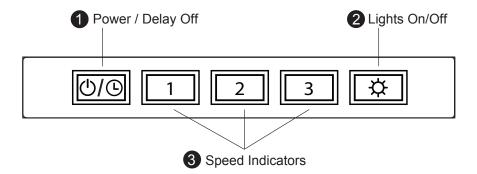
2. Remove (4) screws attaching dual blower plate to top of interior body of hood. Remove dual blower from hood body.



4. Position dual blower at back of hood. Tuck dual blower plate under blower clips and secure blower to back of hood by (4) screws removed from step 2.



6. Attach top cover plate to top of hood body by (4) 3/16 x 3/8 screws.



- 1 Power / Delay Off Button ()/()
 - 🕛 Button will turn power on and off for entire hood (fan and lights.)
 - Hood will remember the last speed and light level it was last turned off at.

 (Example: Press button to turn off hood when on fan speed 3 and high lights.)

 Press button again and the hood will turn back on at speed 3 and high lights.)

Delay Off

- With the fan on, press and hold the 👉/© button for two seconds. The fan will change to speed 1, the 🕩 button will blink on and off indicating the 5 minute delay off timer has started.
- Pressing 🗗 button while delay off function is enabled will turn the hood off and cancel the delay off function.

CFM Selector Verification

- CFM Selector allows the installer to set the maximum fan CFM to align with local codes and regulations.
- To verify the maximum fan CFM:
 - With hood off, hold the 🗗 button for five seconds. If all three fan speed indicators illuminate = default maximum CFM. If speed level 1 and 2 indicators illuminate = 590 maximum CFM. If only speed level 1 indicator illuminates = 390 maximum CFM.
- 2 Lights Button 🜣
 - Lights are two levels, high and low.
 - From off, press one time for high. Press again for low. Press again to power lights off.
- 3 Speed Level Indicators
 - Fan is three speed levels. 1 for low speed, 2 for medium speed, and 3 for high speed.

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.

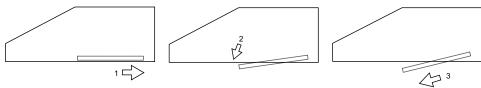
After cleaning use a non-abrasive stainless steel polish/cleaners, to polish and buff out the stainless luster and grain. Always scrub lightly, with clean cotton cloth or micro fiber cloth and buff in the direction of the stainless steel grain.

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.

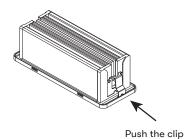


REPLACING LUMILIGHT LEDS

In the unlikely event that your LumiLight LED fails, please contact 1.888.750.1698 to order replacement parts. Please see page 17 for more information.

LED Removal

- 1. Remove pro baffle filters.
- 2. Remove light panel on hood.
- 3. Disconnect LED light quick connector.
- Push in the two side clips on the ends of the LED light.
- Push LED light through the light panel opening.



CFM SELECTOR

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

By default the maximum blower CFM is set to 1200



A 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 CFM Selector

- 1. Before hood installation, gain access to PC board by following the steps shown in FIG. 1.
- 2. Change plastic jumper positioning as shown in FIG. 2 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 CFM Selector

With hood off, press and hold the power button for five seconds. If all three fan speed indicators illuminate = defualt max. CFM, if speed 1 and 2 indicators illuminate = max. 590 CFM, and if only speed 1 level indicator illuminates = max. 390 CFM.

When CFM Selector is enabled, the number of blower speeds will be reduced. 590 CFM = max. 2 speeds and 390 CFM = max. 1 speed.

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

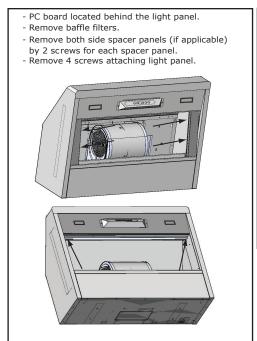


FIG. 1

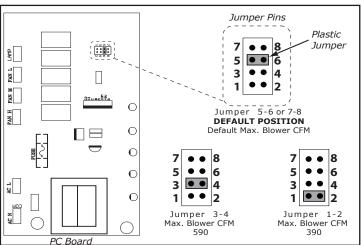


FIG. 2

TROUBLESHOOTING PROCEDURES FOR RH702

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.
	3. The wires on rotary switch are loose.	Make sure the wires on the switch are connected properly.
	4. The switch is defective.	4. Change the switch.
Light works, but	The blower is defective, possible seized.	Change the blower.
blower is not turning.	The thermally protected system detects if the blower is too hot to operate and shuts the blower down.	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	The blower is not secure in place.	Tighten the blower 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 blower is working, but the lights are not.	The light bulb plug is disconnected.	Check the light bulb plug connection.
	2. Defective halogen bulb.	2. Change the halogen bulb.
	3. The light bulb is loose.	3. Tighten the light bulb.
	4. The wires on the switch are loose.	Make sure the wires on switch are connected properly.
The hood is not venting out properly.	The hood might be hanging to high from the cook top.	Adjust the distance between the cook top and the bottom of the hood within 24" 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.	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.	2. Change the spring clip.

Model: RH70230CS RH70236CS RH70248CS

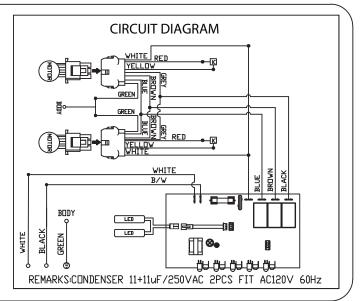
Voltage: 120V 60Hz

Power consumption
Total: Max. 763W @ 7A

 Lamp:
 Max. 6Wx2

 Fan:
 Max. 757W

THERMALLY PROTECTED



DESCRIPTION	PART#
Replacement Parts	
LumiLight LED, 6W (each)	Z0B0048
Pro Baffle Filter (each)	50210039
Optional Accessories	
Back Splash (30")	AK0710
Back Splash (36")	AK0716
Back Splash (48")	AK0718
12" Duct Cover (30")	AK0720
12" Duct Cover (36")	AK0726
12" Duct Cover (48")	AK0728

To order parts, please call us at 1.888.750.1698

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: 1-888-750-1698

Venting Services (referred to herein as "we" or "us") warrants to the original consumer purchaser (referred to herein as "you" or "your") of range hoods (the "Products") that such Products will be free from defects in materials or workmanship as follows:

One Year Limited Warranty for Parts: For one year 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, 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 one-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.

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