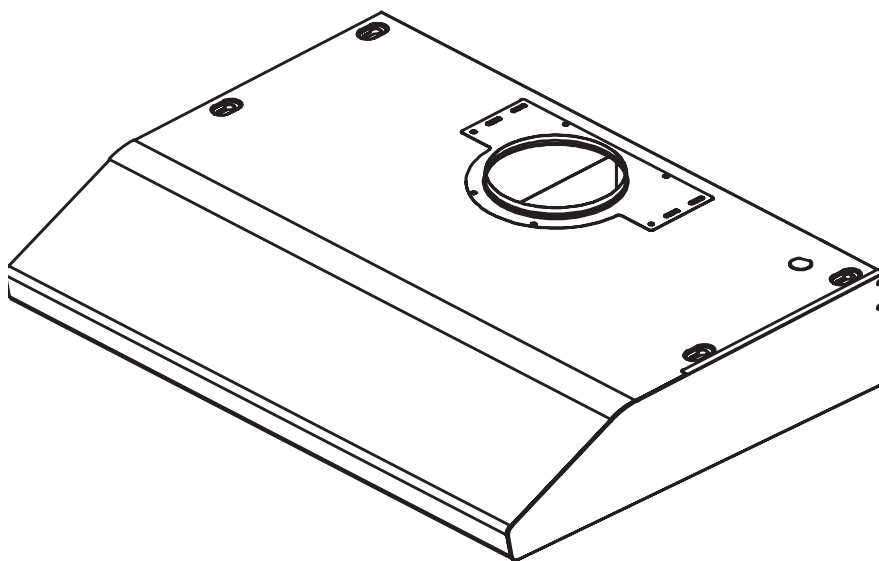


# Use, Care, and Installation Guide

## RH20130BS RH20130BW



Model number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Date of Purchase: \_\_\_\_\_  
Sales Dealer: \_\_\_\_\_

DEC19.0201





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## READ AND SAVE THESE INSTRUCTIONS

### WARNING

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

### WARNING

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

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

### CAUTION

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

### WARNING

TO REDUCE THE RISK OF RANGE TOP GREASE FIRE:

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

### WARNING

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

- a. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
- b. NEVER PICK UP A FLAMING PAN – You may be burned.
- c. DO NOT USE WATER, including wet dishcloths or towels – a violent steam explosion will result.
- d. Use an extinguisher ONLY if:
  1. You know you have a Class ABC extinguisher, and you already know how to operate it.
  2. The fire is small and contained in the area where it started.
  3. The fire department is being called.
  4. You can fight the fire with your back to an exit

### WARNING

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

- a. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards. Including fire-rated construction.
- b. Sufficient air is needed for power combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back-drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- c. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- d. Ducted fans must always vent to the outdoors.
- e. NEVER place a switch where it can be reached from a tub or shower.
- f. Make sure the power is off before installing, wiring or maintaining.

## WARNING

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.  
NOT FOR USE IN OUTDOOR COOKING ENVIRONMENTS.

## 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](http://www.P65Warnings.ca.gov)

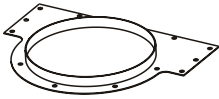
**MODELS:** RH20130BS, RH20130BW

## PARTS SUPPLIED

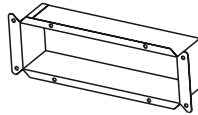
- 1 - Hood body
- 2 - Safety grilles
- 2 - Halogen light bulbs (35W, *pre-installed*)
- 1 - Hardware package

## INCLUDED HARDWARE

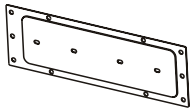
6" Round transition adapter  
(pre-installed on top of hood)



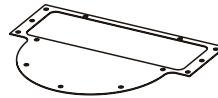
3-1/4"x10" rectangular  
starting collar



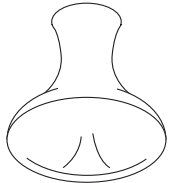
3-1/4"x10" rectangular cover plate  
(pre-installed on back of hood)



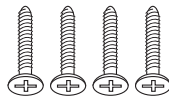
3-1/4"x10" rectangular vertical  
transition adapter



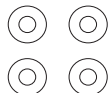
Suction Cup (1)



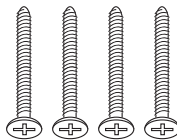
M4 x 1" (4)



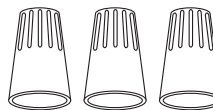
ø12 OD / ø5 ID  
Washers (4)



M4 x 1-1/2" (4)



Wire Caps (3)



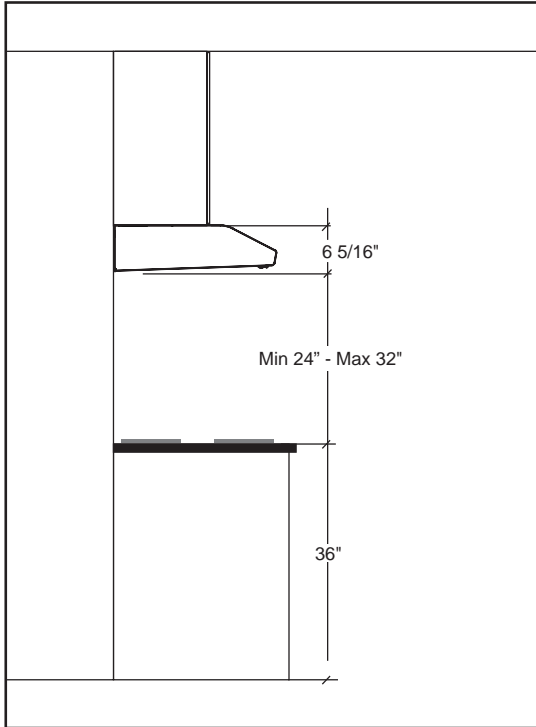
## PARTS NOT SUPPLIED

- Ducting, conduit and all installation tools
- Backdraft damper
- Cable lock (*if required by local codes*)

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.



## DUCTING

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

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

Also use calculation (on page 7) to compute total available duct run when using elbows, transitions and caps.

ALWAYS, when possible, reduce the number or transitions and turns. If long duct run is required, increase duct size from 6" to 7" or 8".

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

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

Maximum mounting height should be no higher than 32".

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

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

### Vertical Ducting:

6" round minimum or  
3-1/4" x 10" rectangular minimum

### Horizontal Ducting:

3-1/4"x10" rectangular 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 or replacement must be made by arrangement between customer and installer.



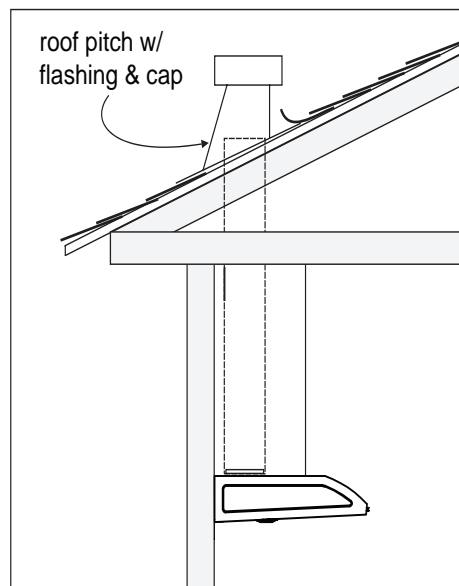
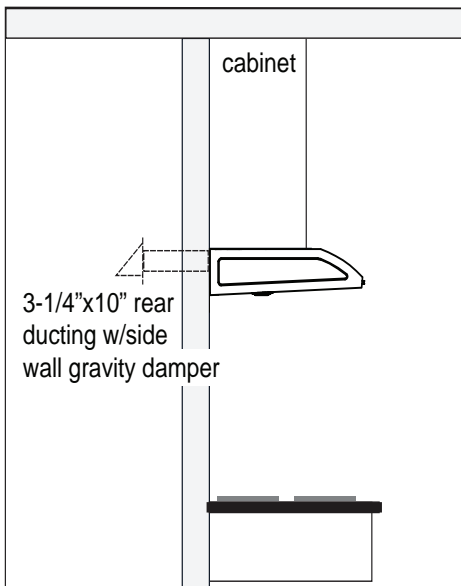
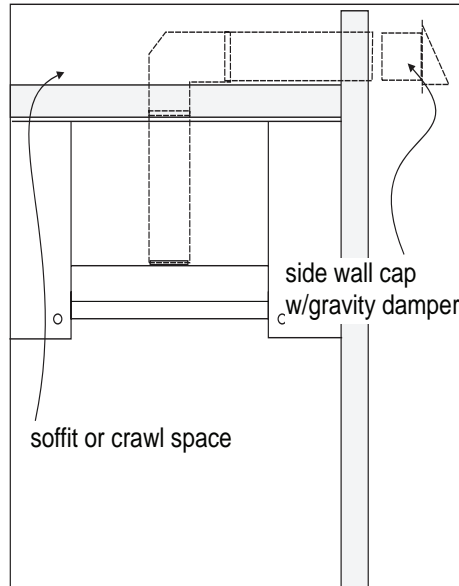
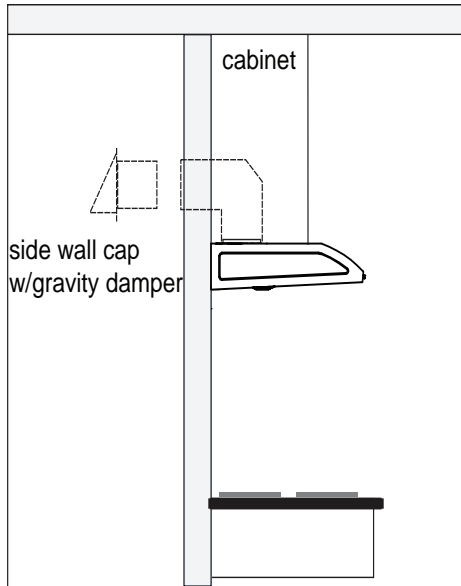
## WARNING FIRE HAZARD

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

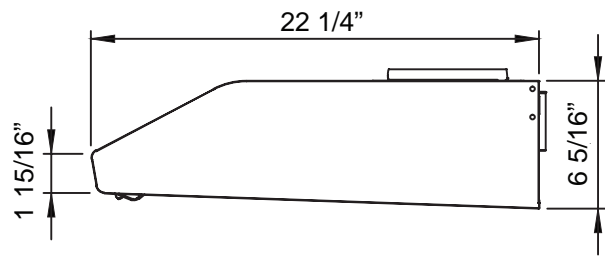
Use metal ductwork only.

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

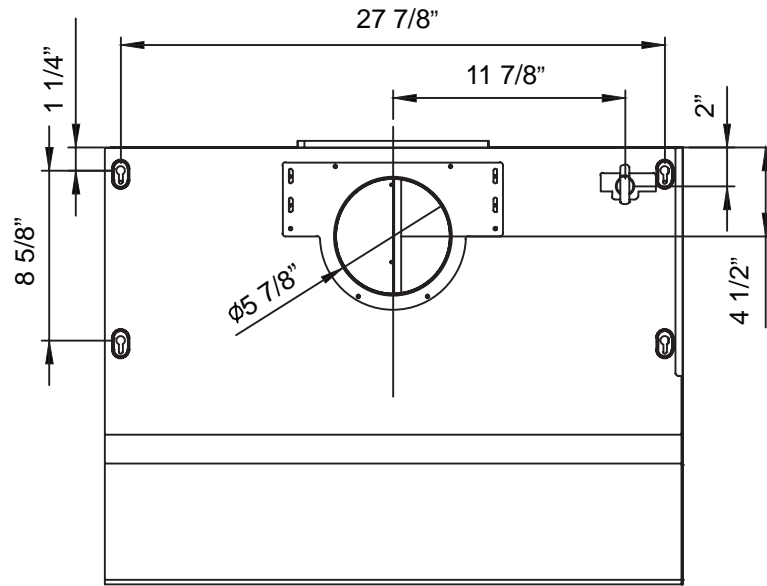
### Some Ducting Options



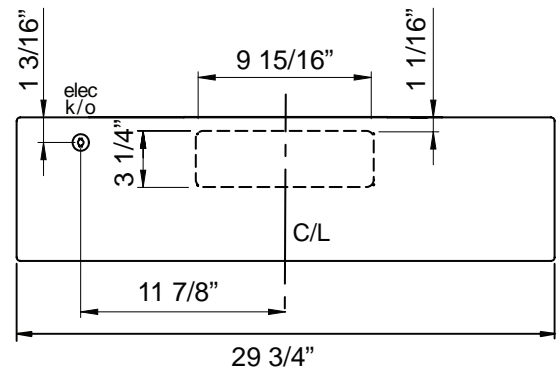
# Installation – Specifications



**SIDE**



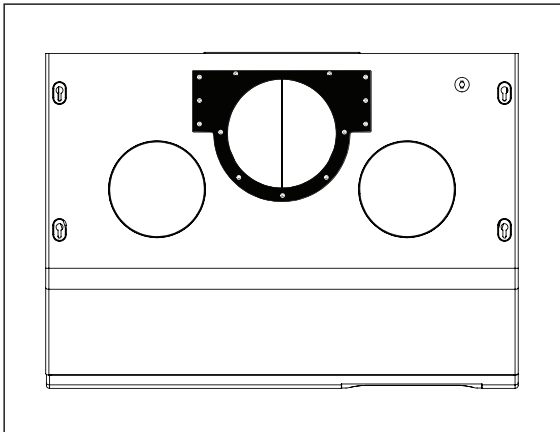
**TOP**



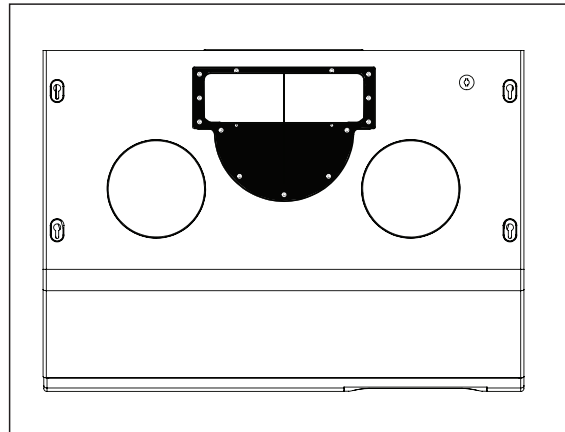
**BACK**

By default the RH20130B is pre-configured for 6" round vertical ducting.

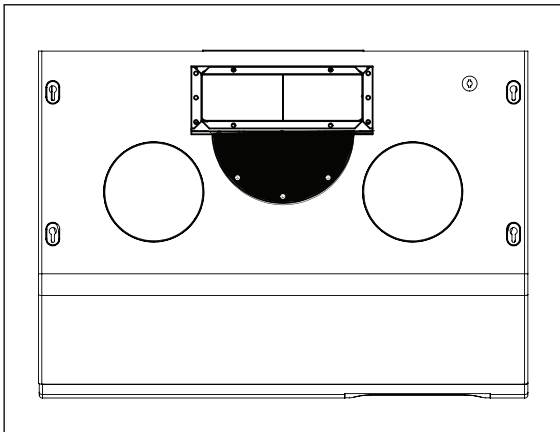
### 3-1/4"x10" Rectangular Vertical Ducting



1. Using a Philips-head screwdriver remove the screws and 6" round vertical transition adapter from top of hood body.



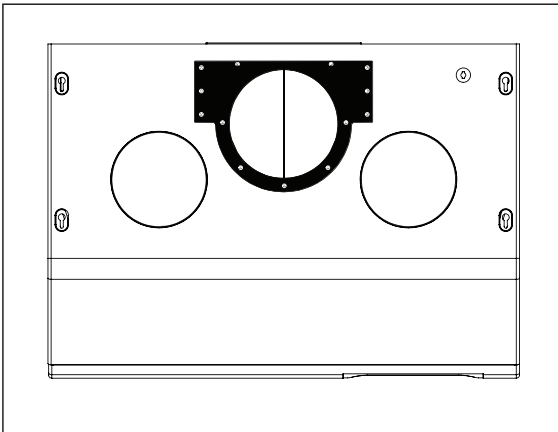
2. Replace 6" round vertical transition adapter with rectangular transition adapter. Do not secure to hood body yet.



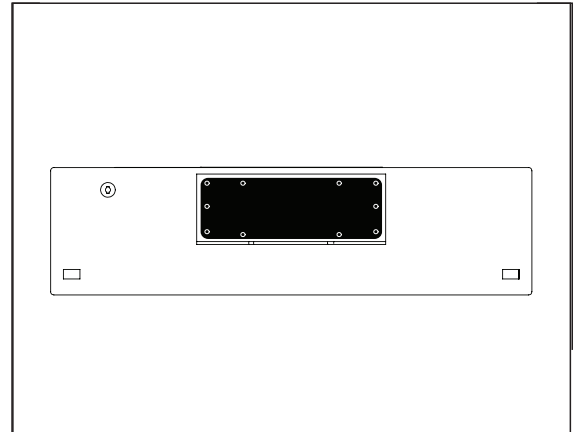
3. Place 3-1/4"x10" rectangular collar on top of rectangular transition adapter. Secure rectangular adapter and rectangular collar to hood body using the previously removed screws from step 1.

By default the RH20130B is pre-configured for 6" round vertical ducting.

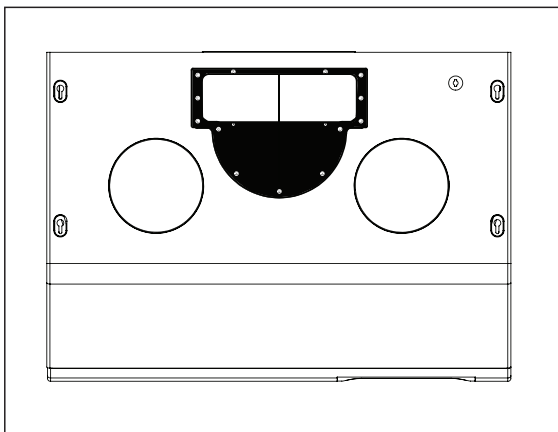
## 3-1/4"x10" Rectangular Horizontal Ducting



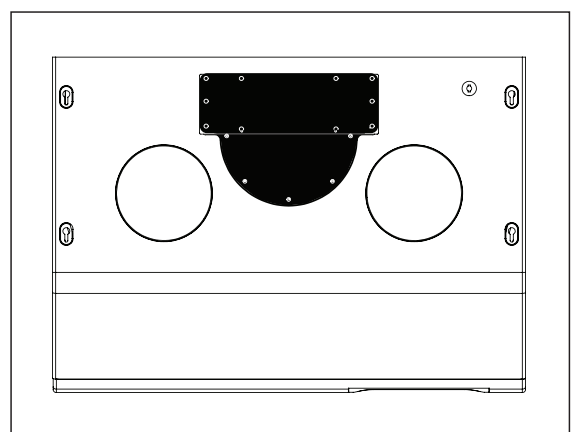
1. Using a Philips-head screwdriver remove the screws and 6" round vertical transition adapter from the top of the hood.



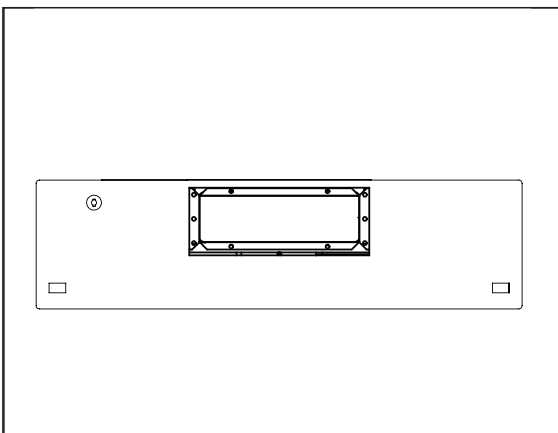
2. Using a Philips-head screwdriver, remove the screws and 3-1/4"x10" rectangular cover plate from back of hood.



3. Replace 6" round vertical transition adapter with rectangular transition adapter. Do not secure to hood body yet.



4. Place 3-1/4"x10" rectangular cover plate over the rectangular opening on top of hood from step 4. Secure rectangular transition adapter and cover plate to hood body using the previously removed screws from step 1.



5. Place 3-1/4"x10" rectangular collar on back of hood and secure using the screws that previously secured the rectangular cover plate.

## ELECTRICAL

### WARNING

**All Electrical work must be performed by qualified electrician or person with similar technical knowledge 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.

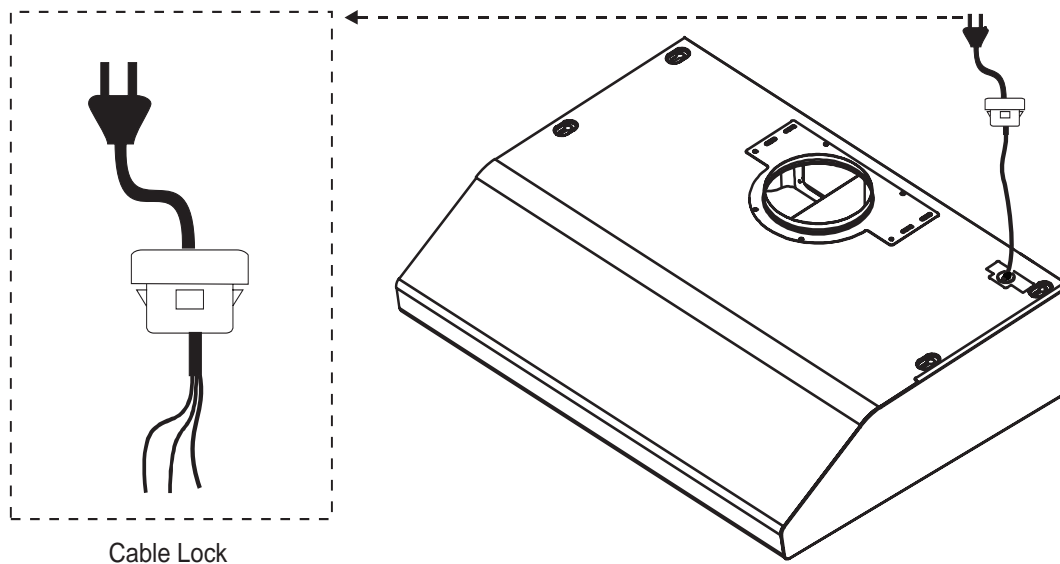
**Follow national electrical codes or prevailing local codes and ordinances.**

#### 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 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 – Mounting the Range Hood

**Hood is designed for installation under a kitchen cabinet. See Fig. 1 for details.**

1. Prepare duct location on hood (vertical or horizontal) Refer to Pages 11-12 for ducting options.
2. Measure and cut out duct and electrical openings in cabinet or wall to match up with the hood. Ducting and electrical dimensions can be found on Page 10. **Note:** Make sure duct opening is large enough to apply aluminum duct tape.
3. Reinforce cabinet bottom with wood strips if additional strengthening is required or if cabinets are framed.
4. Remove bottom panel from hood using a Philips head screwdriver to remove each of the (3) screws. Also remove lighting harness by pressing in on the clip to release the lights from the internal wiring.
5. Install (4) wood screws to cabinet bottom by following the installation screw hole dimensions on Page 10. These screws will be used to secure the hood to the cabinet.
6. Lift hood onto screws located on cabinet bottom and lock into place. Make sure all (4) key-holes cover the screws. Tighten each screw to secure hood to cabinet.
7. Install electrical.
8. Install duct work and seal with aluminum duct tape.
9. Power up hood and check for leaks around duct tape and test all functions.
10. Reinstall bottom panel and re-connect lighting harness.
11. Slide residue cups into their openings on the bottom of the hood. Install safety grilles over each blower opening and secure with the two safety grille screws.

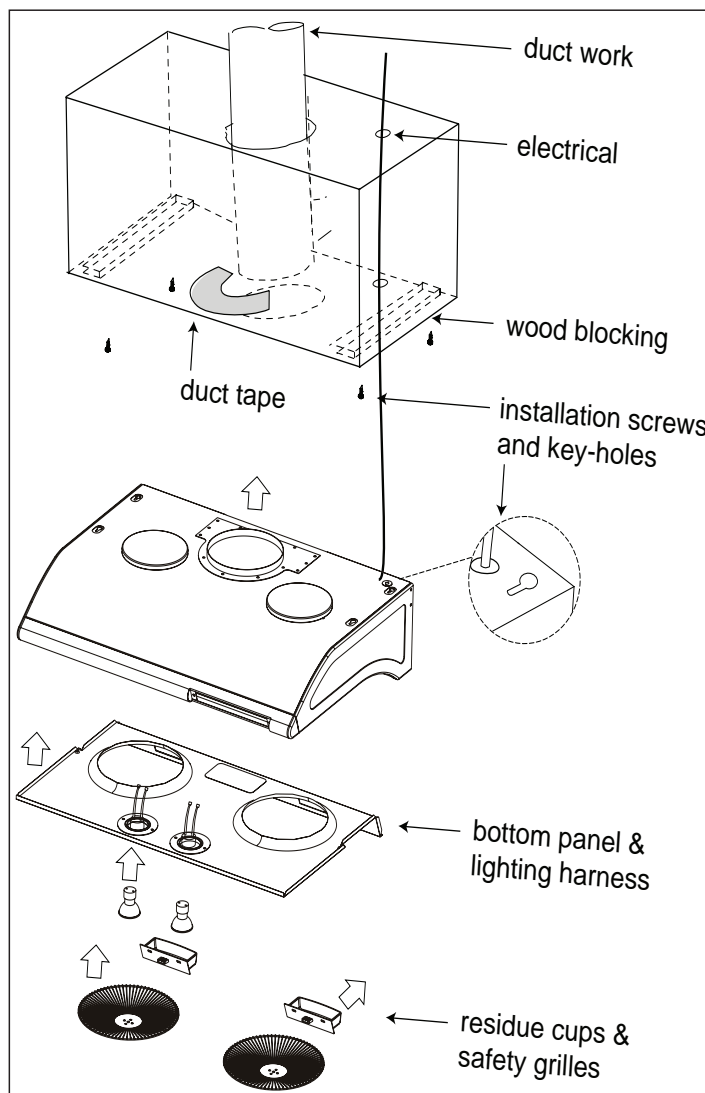
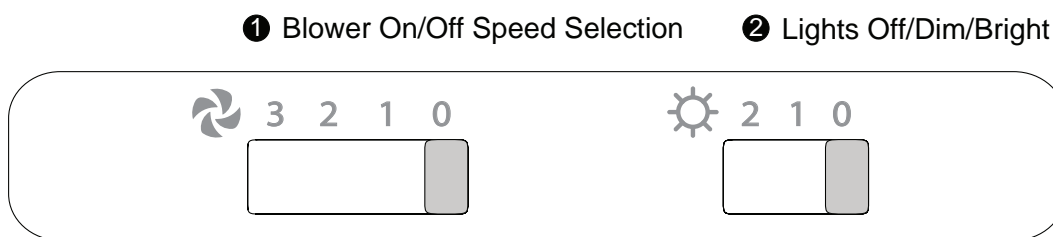


Fig 1



## 1 BLOWER ON/OFF/SPEED SELECTION

0 is off, 1 is low speed, 2 is medium speed and 3 is high speed.

## 2 LIGHTS OFF/BRIGHT/DIM

0 is off, 1 is dim, and 2 is bright.

## SELF CLEANING FEATURE

RH20130B hoods are filter-less with a self cleaning feature. The centrifugal blower system automatically liquifies cooking residue in its internal housing. All hoods are equipped with dishwasher safe residue cups to collect cooking residue during the self cleaning function.

Cooking residues are often automatically liquified and can accumulate in the residue cups from everyday use. Nevertheless, grease from cooking could also dry and adhere to the internal housing. Running the self clean function periodically will flush out accumulated residue in the range hood's internal housing.

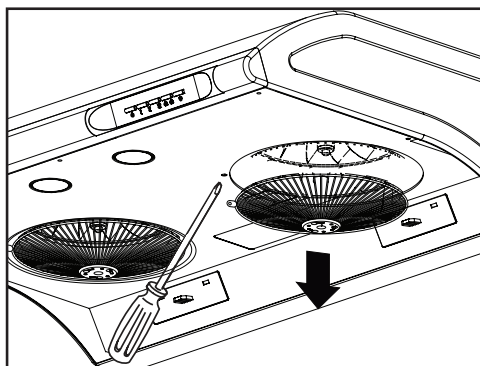
## CLEANING FREQUENCY

Cleaning should be performed approximately once a month under normal usage of 1 hour per day. The hood may need to be cleaned more often if you cook heavily.

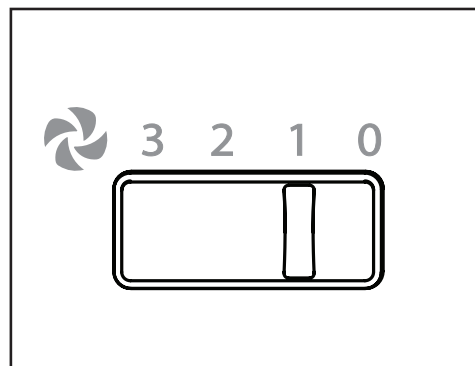
## DETERGENT

Use a grease cutting detergent such as Simple Green or 409.

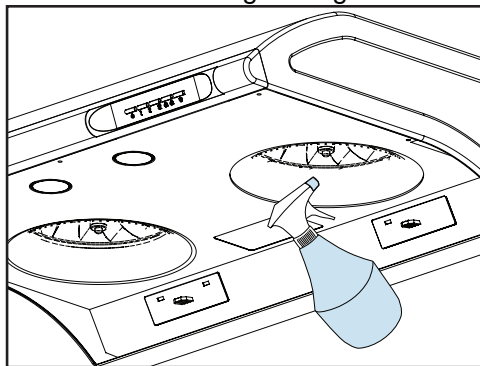
## CLEANING INSTRUCTIONS



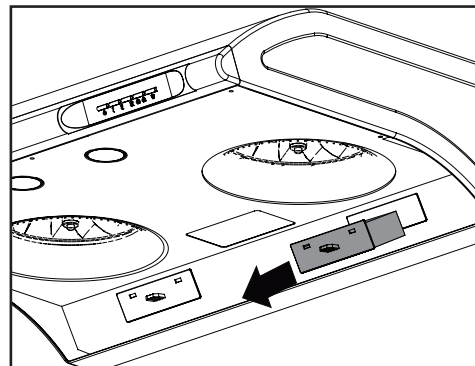
1) Remove safety grilles by removing the Philips head screw securing each grille to the hood body.



2) Power on blowers at Speed 1.



3) With nozzle on "spray", squirt grease cutting detergent onto blower wheel blades 30 - 35 times. Repeat for each blower. Detergent will collect in the residue cups.



4) Remove residue cups. Clean residue cups and safety grilles in dishwasher or clean by hand. Replace residue cups and safety grilles after cleaning.

## WARNING

Use extreme caution while cleaning the hood when safety grilles are removed. Beware of blowers catching on to hair, loose clothing and fingers. NEVER leave children unattended.



## SURFACE MAINTENANCE

Clean periodically with hot soapy water and clean cotton cloth. Do not use corrosive or abrasive detergent, or steel wool/scouring 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 grain.

## CLEANING TIP

Fill residue cups 1/4 full with water after cleaning. This will help prevent residue from drying and sticking on the cup surface

## REPLACING LIGHT BULBS

**CAUTION:** Light bulb becomes extremely hot when turned on.

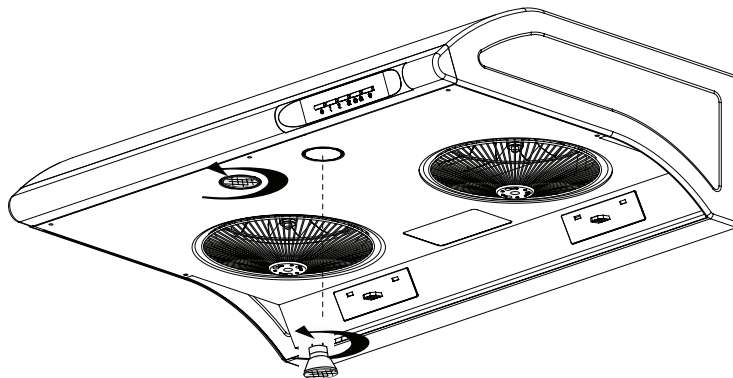
**DO NOT touch bulb until switched off and cooled. Touching hot bulbs could cause serious burns.**

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 suction cup included in hardware package 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.



## TROUBLESHOOTING PROCEDURES FOR RH20130B

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 motor is not turning.	1. The motor is defective, possible seized.	1. Change the motor.
	2. The thermally protected system detects if the motor is too hot to operate and shuts the motor down.	2. The motor will function properly after the thermally protected system cool down.
	3. Damaged capacitor.	3. Change the capacitor.
	4. The motor wire is not connected.	4. Make sure the motor wire is plugged into the molex connector.
The unit is vibrating.	1. The motor is not secure in place.	1. Tighten the motor in place.
	2. Damaged blower wheel.	2. Change the blower.
	3. The hood is not secured in place.	3. Check the installation of the hood.
The motor is working, but the lights are not.	1. Defective halogen bulb.	1. Change the halogen bulb.
	2. The light bulb is loose.	2. Tighten the light bulb.
	3. The wires on the control board are loose.	3. Make sure the wires on control board are connected properly.
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 32" range.
	2. The wind from the opened windows or opened doors in the surrounding area are affecting the ventilation of the hood.	2. Close all the windows and doors to eliminate the outside wind flow.
	3. 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.
Safety grille is vibrating.	1. Safety grille is loose.	1. Tighten safety grille screw.

## 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, 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 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.

**1-888-750-1698 | support@appliance-support.com**