

# WINDSTER™

[www.windsterhood.com](http://www.windsterhood.com)

## OPERATION MANUAL

- SPEEDS : 3
- LED Light

R-33L Series

R-34L Series

R-35L Series



Please read and save this guide through before using your range hood  
Store the guide away in a safe place so that you will know where it is  
when you want to refer to it

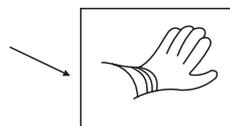
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## WARNING

Due to sharp edge, please wear "Safety Workman Gloves"  
for installation, cleaning, light bulb changing and  
dismantling to reduce the risk of any bodily injuries.

Safety Workman Gloves



## A. Important Safety Instructions

Read and Save These Instructions

**CAUTION-** To reduce risk of fire and to properly exhaust air, make sure to properly exhaust air. Be sure to duct air outside- Do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces, or garages.

**WARNING-** To reduce the risk of fire or electric shock, do not use this fan with any solid- state speed control device.

**WARNING- TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY, 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 the unit, switch power off at service panel to prevent power from being switched on accidentally.

C. When the service disconnecting means cannot be blocked, securely fasten prominent warning device such as a tag to service panel.

**CAUTION-** For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapours.

**WARNING- TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:**

A- Never leave surface units unattended at high settings. Boil over 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 cooking flaming foods. (ie, Crapes suzetter, charries jubilee, peppercorn beef flambe)

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.

**WARNING-** To reduce the risk of injury in the event of a range top grease 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-** Sufficient air is needed for proper 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 these 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. Keep the range hood clean.

**WARNING-** To reduce the risk of fire, use only metal duct work.

## B. Safety Notes

1. All electrical work must be done in accordance with local and/or national electrical code as applicable for safety. This product must be grounded if you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified electrician.
2. Turn off power at service entrance before installing wiring or servicing this product. (120 volt for range hood. 220 volt for electric range if any)
3. Turn off power to avoid risk of fire, electric shock, or injury for cleaning or maintenance such as lubrication.
4. Fireplaces, gas furnaces, water heaters, require proper flow of combustion air and exhaust. Make sure this flow is not altered when using any exhaust fan.
5. Please read specification label on product for further information and requirements.
6. Please wear "Safety Gloves" for installation, cleaning, light bulb changing and dismantling to reduce the risk of any injuries.

**CAUTION-** To reduce the risk of fire and to properly exhaust air, be sure to duct air outside. Do not vent exhaust air into spaces within walls or ceilings or into attics crawl spaces or garages.

## C. Tools and Materials Required

- ▶ Drill, electric or ratchet drive, with 3/16" wood bit (for drilling starter holes and 1¼" wood bit (to drill an access holes in the cabinet or kitchen wall for the electric power line)
- ▶ One common screwdriver.
- ▶ Plier (for opening electrical knockout).
- ▶ Two 1" (thick)x2" (wide)x12" (approximate length) wood strips for recessed bottom kitchen cabinet installation only. (Purchase locally).
- ▶ Electrical wire and supplies to comply with local cords.
- ▶ Four 1¼" long flat head wood screws (purchase locally) to mount wood strips.
- ▶ Pencil and ruler for marking locations. Saber saw or keyhole saw for cutting the 1"x2" wood strips to length.

## D. Ducting

This style of range hood must be vented via ducting to the outside of the house. Follow general rules when ducting the hood: Use correct size of ducting at least 6" round, do not reduce size of ducting, make all turns gradual, no short corners. If ducting run will be longer than 10 feet enlarge duct by at least 1" inch diameter after each 10 feet. Tape all joints in ducting and all gasketed openings on hood for a tight seal.

For round ducting from the top:

Fit the gray or white plastic (Included) over the circular opening on top in order to provide a tight seal for ducting to attach to. The duct ring is designed to fit 6" and 7" ducting.

## E. Preparing The Range Hood

1. Remove the top electrical knockout, you may plan to bring power to the range hood either through the cabinet or through the wall (Fig.1)

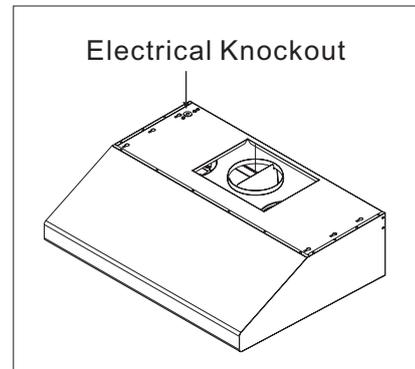


Fig.1

2. Insert a screwdriver into the knockout slot and bend the knockout back and forth. (Fig.2)
3. You may have to use pliers to pull the loosened knockout free. (Fig.3)

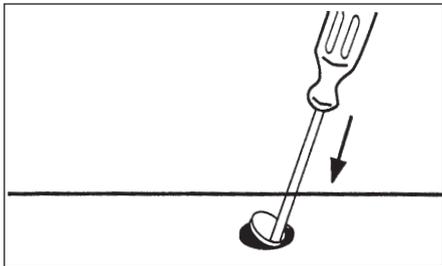


Fig.2



Fig.3

4. When installed, the bottom edge of your range hood should be 28" ~ 32" above the top of the cooking surface. (Fig.4)

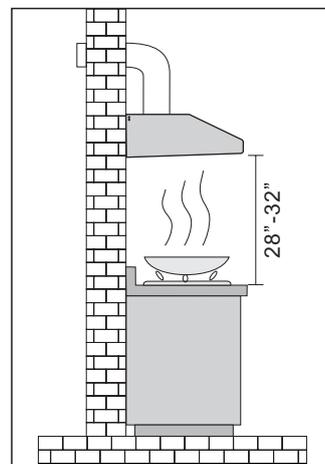


Fig.4

## F. Preparing The Installation Location

1. If you want to move the electric range to make room for working on the cabinet turn off the 220 volt power for the electric range at the service entrance.
2. Before moving a gas range, shut off the gas.

NOTE: SKIP FOLLOWING STEPS 3A THROUGH 3D IF THE HOOD IS TO BE MOUNTED ON A CABINET WITH A FLUSH BOTTOM.

3. For installation onto a recessed bottom cabinet:
  - a. Measure the space (under the cabinet between the inside front edge and inside back edge (Fig.5). With a saber saw, cut two 1"x2" wood filler strips (purchased locally) to fill in the bottom of the cabinet.
  - b. Start a 1¼" long wood screw (purchased locally) about 3" from each end of the 1"x2" wood strips (Fig.6)
  - c. Position the strips on the cabinet bottom and screw the strips securely to the cabinet (Fig.7)
  - d. For a more secure installation, drill four 3/16" holes from inside the cabinet, down into the wood filler strips. Insert screws into the starter holes in cabinet and tighten screws until wood filler strips are secured under cabinet.
4. Center the hood in place beneath the cabinet and flush with the front of the cabinet. Mark the following:
  - a. The six keyhole mounting slots for the hood. Mark these onto the bottom of the cabinet; or, if the cabinet bottom is recessed. Onto the wood strips (Fig.7)
  - b. The electrical knockout hole. (Fig.1)

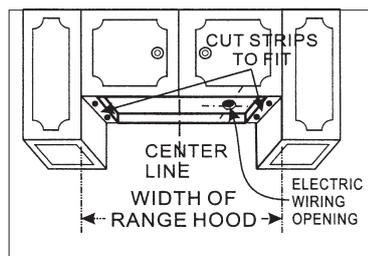


Fig.5

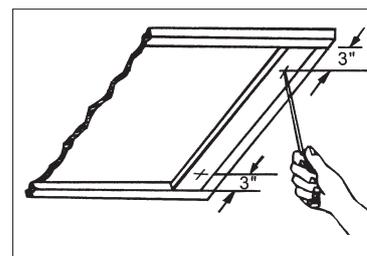


Fig.6

- c. Screw the four 1" wood screws (for mounting the hood) into the exact center of the arrow and into the keyhole mounting slots marked on the cabinet bottom (for flush installations), or marked on the 1"x2" wood strips (for recessed cabinet installation) (Fig.7) Do not turn the mounting screws in all the way. Allow 3/8" of screw to project, so the hood can be fitted place. (The screws will be tightened later)

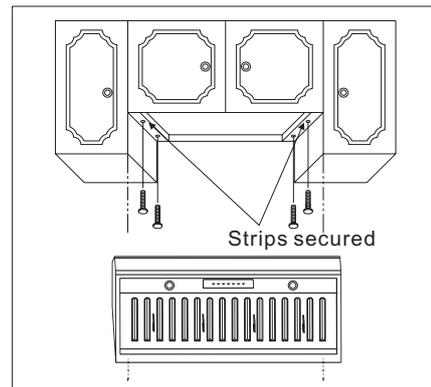


Fig.7

## G. Providing Electrical Power

1. After turning off the proper 120 volt circuit at the service entrance, drill out the electrical power line access hole marked on the cabinet bottom or wall. Use a 1 1/4" wood bit. (Fig. 8)
2. Fish the electrical power line through the access hole drilled in the wall or bottom of the cabinet. Attach an appropriate connector (purchased locally) to the end of the power line for the type of wiring being installed. Follow all codes. (Fig.9)

### Safety Warning:

If drilling into the walls, be careful not to cut existing electrical cables, which would create a hazard.

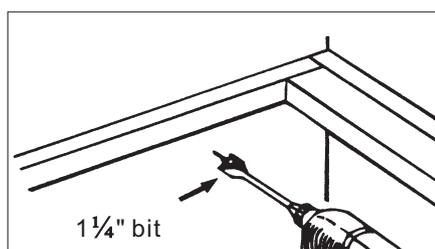


Fig.8

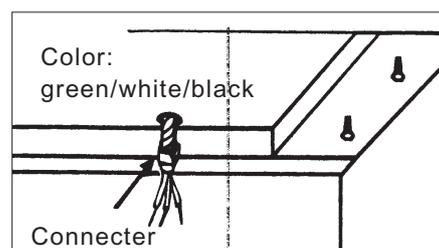


Fig.9

## WIRING TO POWER SUPPLY

### SAFETY WARNING

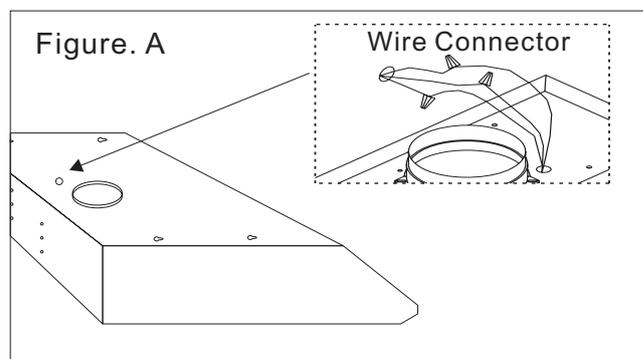
RISK OF ELECTRICAL SHOCK. THIS RANGE HOOD MUST BE PROPERLY GROUNDED. MAKE SURE THIS IS DONE BY SPECIALIZED ELECTRICIAN IN ACCORDANCE WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES. BEFORE CONNECTING WIRES, SWITCH POWER OFF AT SERVICE PANEL AND LOCK SERVICE PANEL TO PREVENT POWER FROM BEING SWITCHED ON ACCIDENTALLY.

Connect the electrical wires.

- Connect three wires (black, white and green) to house wires and cap with wire connectors. Connect according to color:

black to black, white to white, and green to green as shown on Figure A.

- If necessary to hide the electrical wire connections, push wires back into the wiring box. Access the wire connections underneath the hood. Make sure wires do not slip between motor or any moving parts to prevent any damage.



## H. Installation

### a. Mounting Range Hood To Cabinet

1. Position the hood in place so that :

- a. The electrical line is routed through the appropriate Knockout opening. This step will have to be accomplished while positioning the hood (Fig.10)
- b. The large part of the keyhole mounting slots on the hood fit onto the hood mounting screws projecting from the bottom of the cabinet. (Fig.11)

2. Adjust the hood so the front is flush with the cabinet front.

3. Tighten the hood mounting screws all the way into the cabinet or into the 1" x 2" wood strips so the hood is secure.

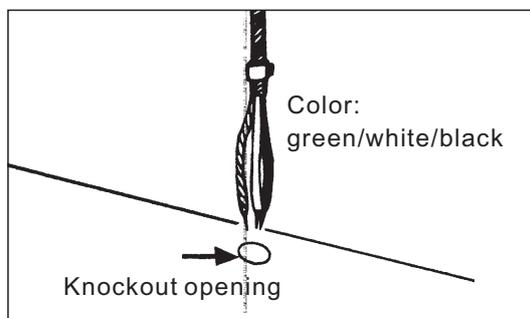


Fig.10

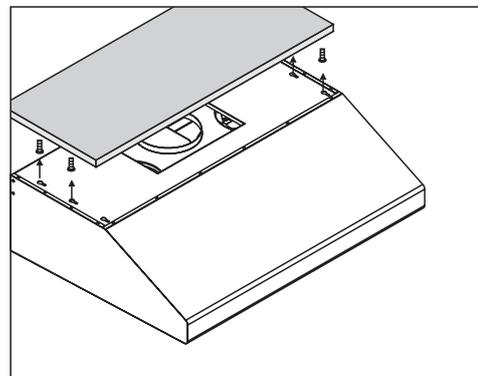
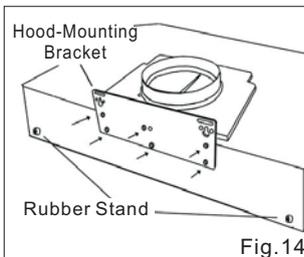
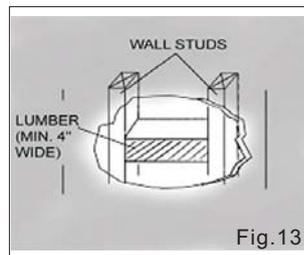
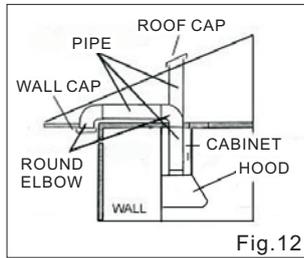
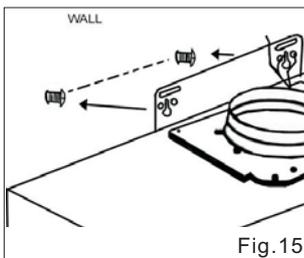


Fig.11

## b. Wall Mount Installation

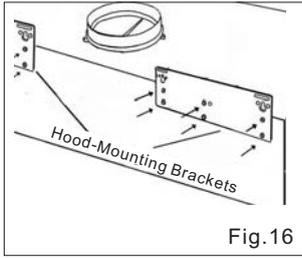


RA-33/RA-34 Series



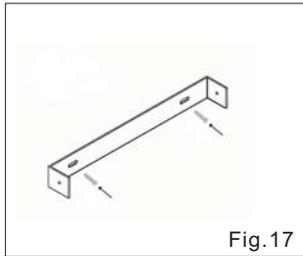
RA-33/RA-34 Series

- a. Decide the location and measure the length of venting pipe from the hood to the outside. (Fig.12)
- b. The less transition, elbows, the more exhaust power performance of the hood.
  
- Prepare back wall frame with cross framing lumber (purchase locally) and fix in the appropriation for secure installation (Fig.13)
  
- Test for proper operation by temporarily wire the hood before installing.
- Attach two rubber stands (included) with two (4\*8mm) screws (included) if necessary, to the back of the hood.
  
- Attach the hood - mounting bracket to the back of the hood with six (3/16" x 3/8" ) screws (included) (Fig.14)
  
- a. Mark the levelling of the hood position two mounting screws (not included) on the wall, leaving 1/8 away from the wall.
- b. Align hood-mounting bracket to the screws on the wall and hook into place as Fig.15, Tighten screws to secure hood to the wall.



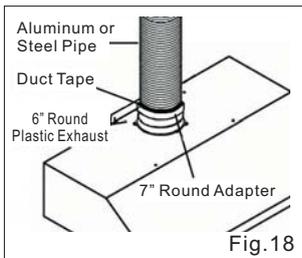
RA-35 Series

- Apply with eight (3/16" x 3/8" ) screws (included) to fix the two hood-mounting brackets (included) to the back of the hood. (Fig.16 )



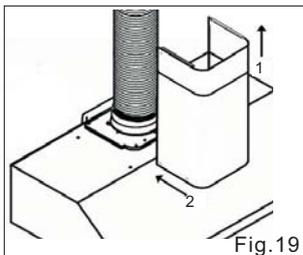
RA-33/RA-34 Series

- Mark the desired position of the duct cover mounting bracket on the wall. Fix and secure duct cover mounting bracket with two screws (not included). (Fig.17 )



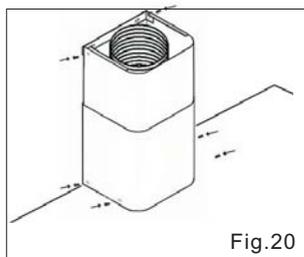
RA-33/RA-34 Series

- Apply with aluminum or steel pipe to connect the plastic exhaust duct on the hood. Use duct tape to make all joints secure and ensure air tight. (Fig.18 )



RA-33/RA-34 Series

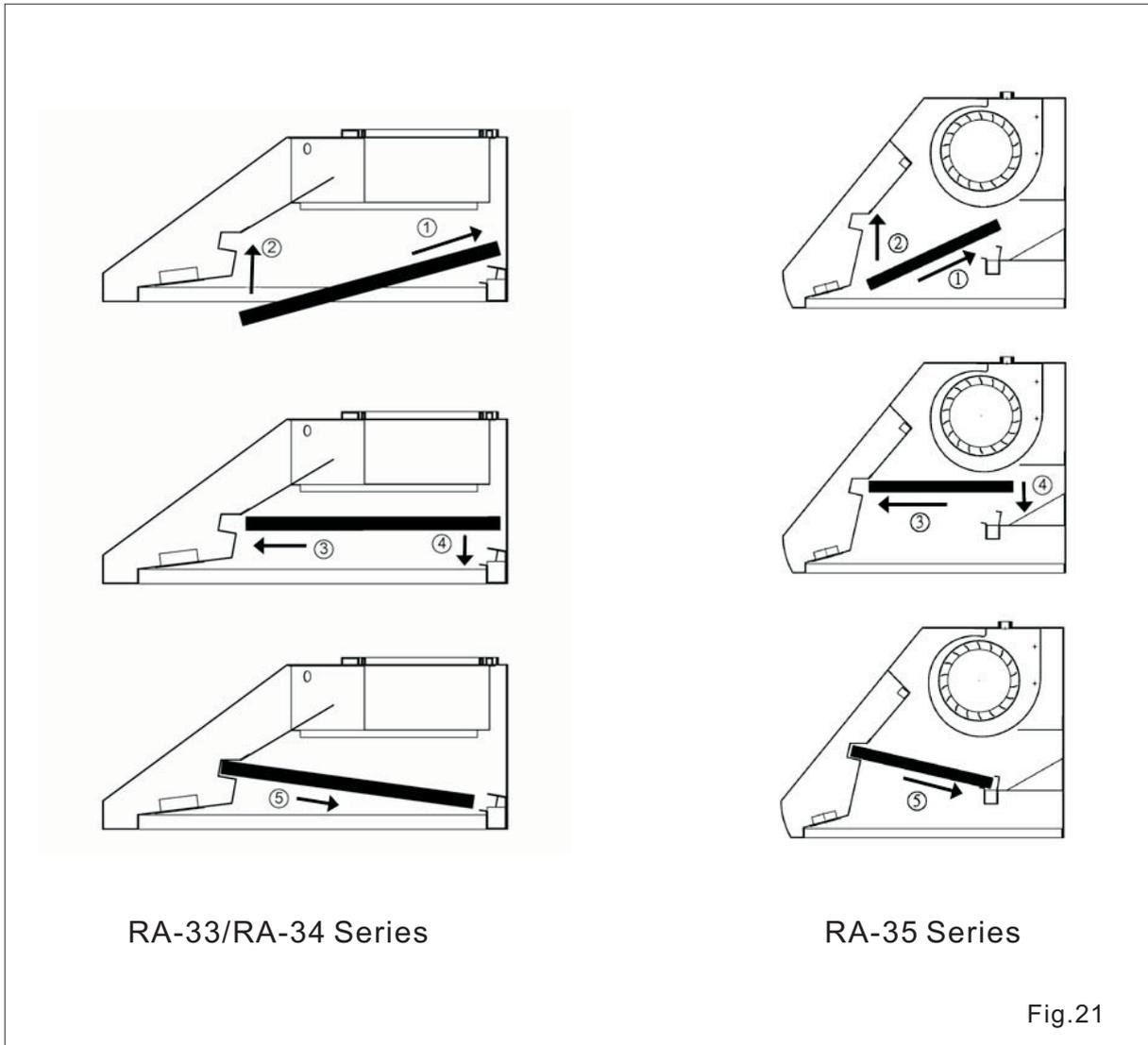
- Slide the inner duct cover up 2 inches before sliding the entire duct cover on the hood. (Fig.19 )



RA-33/RA-34 Series

1. Adjust the height of the inner duct cover to the duct cover-mounting bracket. Secure the inner duct cover with two (4 x 8 mm) screws (included) (Fig.20 )
2. Fasten out duct cover to plastic plate on the hood with four (4 x 8 mm) screws (included) (Fig.20 )

### c. Install Accessory

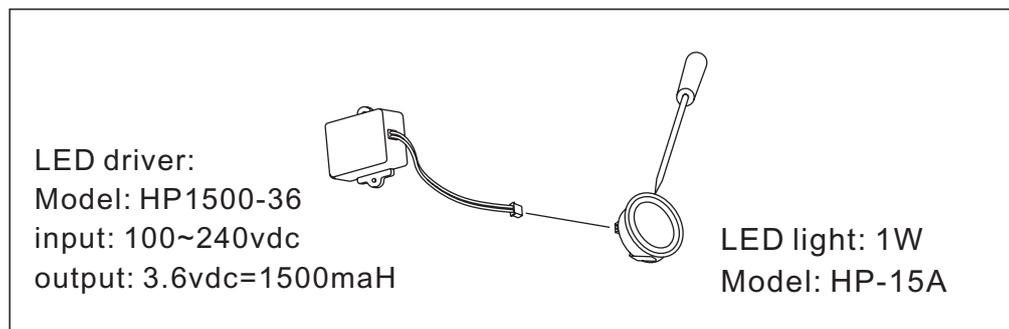


1. Refer to Fig. 21
  - ① Slide the baffle filter into the hood.
  - ② Push the baffle filter up ward.
  - ③ Slide forward.
  - ④ Pull downward.
  - ⑤ Fit into place.
2. For bottom casing, repeat above steps.

## I. Replace the LED Light

Before replacing LED light ensure the unit is switched off, when you want to change the LED light, please always wear working gloves.

1. Using suitable tool (small slotted screw driver) gently pry off the LED light set.
2. Taking off the wire connector with LED light set.
3. Replace a new LED light set and reconnect the wire to the connector.
4. Before push back the original LED light position, test the LED light.



**NOTE :** For LED light replacement, you may not find the appropriate LED lights from market, please contact with distributor(s)/dealer(s).

## J. Maintenance Instruction

1. Maintenance should be important than repair. Please take care of the needed maintenance in order to secure and extend the excellent functions and using life.

**Note:** Before repairing the range hood. Disconnect the power source.

2. After using the machine, wipes the machine by neutral detergent in order to keep it clean and maintain the appearance with brightness and sanitation.

3. When the level of dirty oil of the collector reached 4/5 of height, it has to be removed in order to avoid overflowing and pollution.

## K. Troubleshootings

Symptom	Correction
Fan are not operatable.	A. Check power source to see if it is normal. B. Check power inlet plug to see if it is plugged firmly into it's socket.
Illuminating LED light does not word	A. Disconnect the power source. B. Check LED light, replace it with a new one if it is burned out.
Hood vibrates.	A. Check for damaged vanes. B. Check if exhaust duct is secured.

## L. Use and Care

**Note:** Operate switches (Fig.22)

Switch 1 : LED Fan speed indicator.

③ - Low speed    ① - High speed

Switch 2 : Speed switch (Three speed fan)

Switch 3 : Light switch

Switch 4 : Power switch and delay switch.

Push once : Delayed shut off.

Push twice : Immediate shut off.

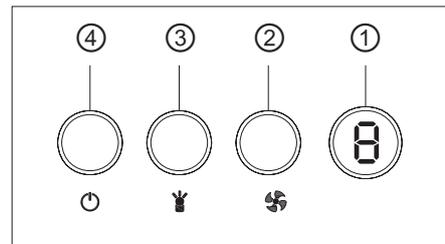


Fig.22

### **Note:**

Range hood should be turn on either before or the same time when cooking begins. After cooking, range hood should be kept on for about 3 more minutes for complete ventilation of cooking odor.

### **Care Instruction:**

Please always pull the plug out before cleaning or dismantling, wear 'Safety gloves' to reduce the risk of any injuries.

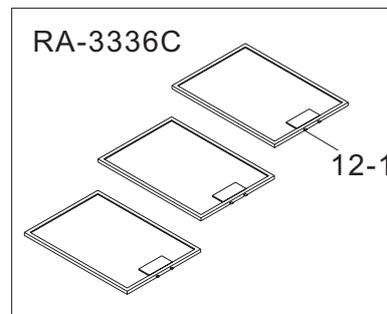
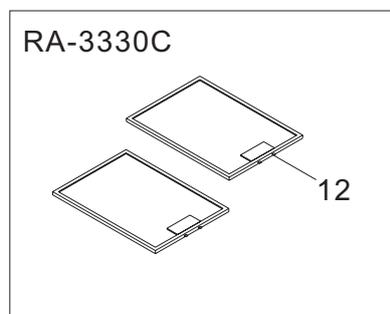
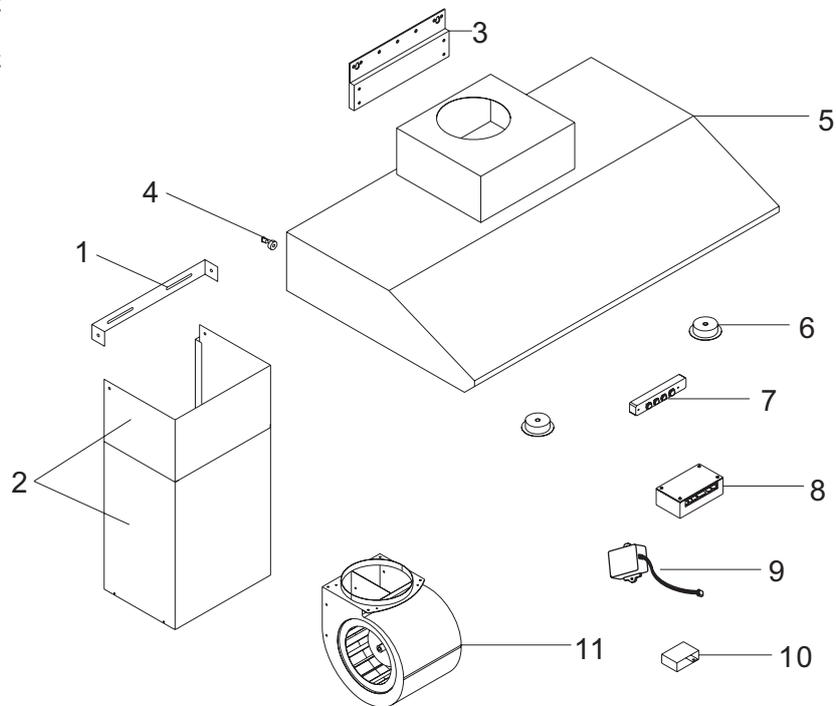
Exterior: Can be clean with any type of non-abrasive detergent and a clean cloth. "Green Pad" or any metal type cleaning pad is not recommended for exterior.

## M. Parts layout diagrams

MODEL :

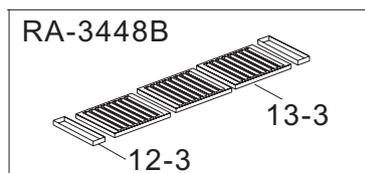
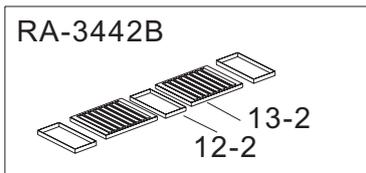
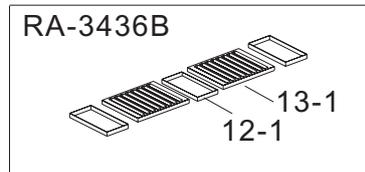
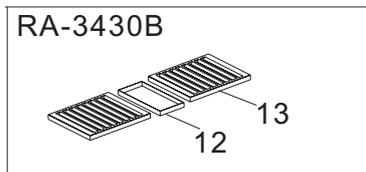
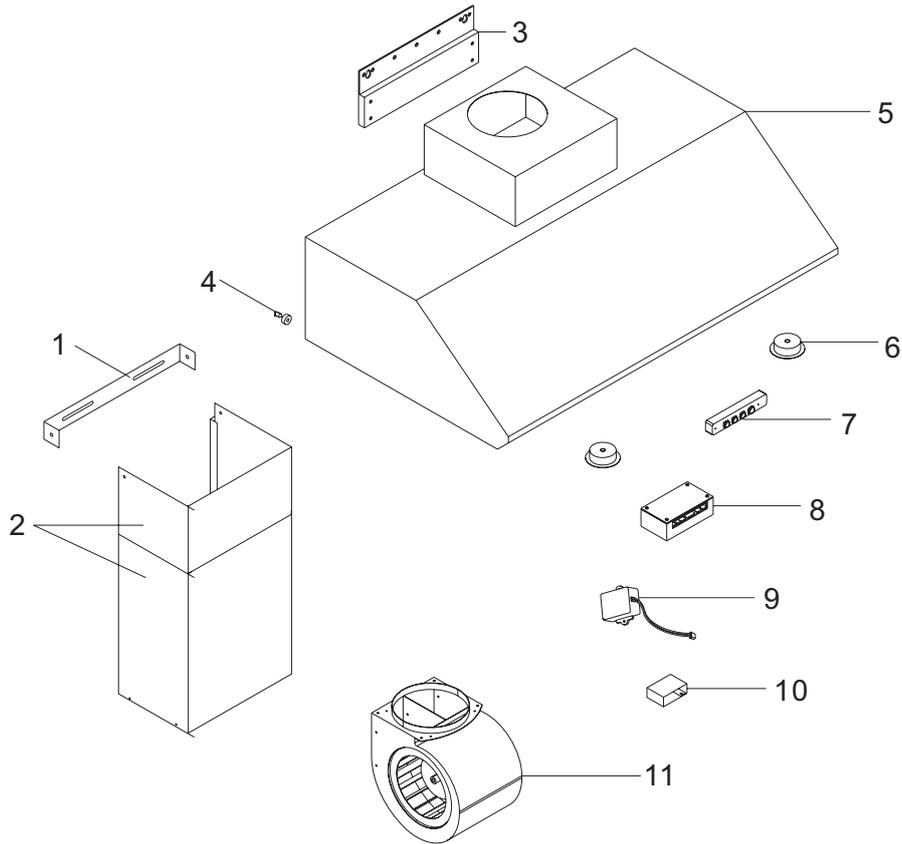
RA-3330C

RA-3336C



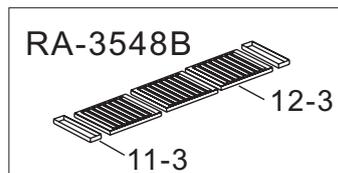
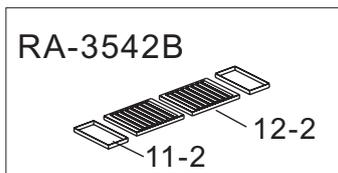
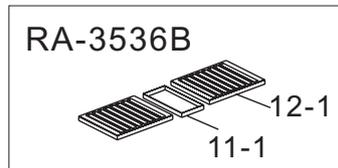
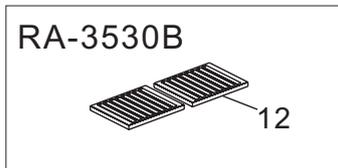
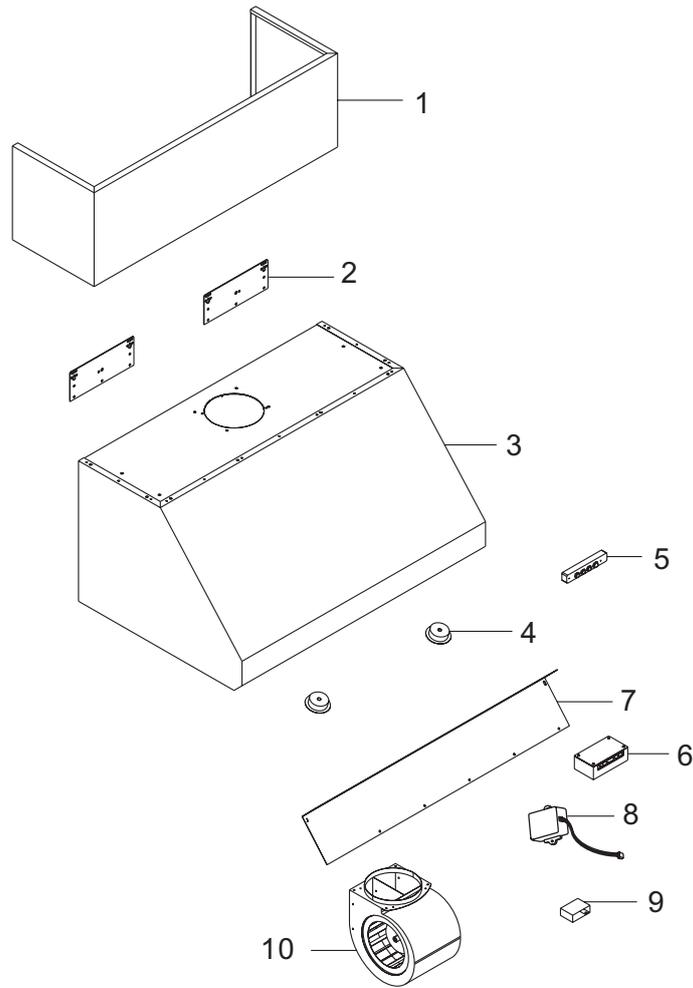
1.	Duct cover-Mounting bracket	7.	Control board
2.	Duct cover (Optional)	8.	Processor board
3.	Hood-Mounting bracket	9.	LED driver
4.	Rubber stand	10.	Capacitor
5.	Hood casing	11.	Squirrel cage
6.	LED light	12.	Aluminum filter (12-1)

MODEL :  
 RA-3430B  
 RA-3436B  
 RA-3442B  
 RA-3448B



1.	Duct cover-Mounting bracket	8.	Processor board
2.	Duct cover (Optional)	9.	LED driver
3.	Hood-Mounting bracket	10.	Capacitor
4.	Rubber stand	11.	Squirrel cage
5.	Hood casing	12.	Stainless steel spacer
6.	LED light	13.	Baffle filter
7.	Control board		

MODEL :  
 RA-3530B  
 RA-3536B  
 RA-3542B  
 RA-3548B



1.	Duct cover (Optional)	7.	Capacitor support
2.	Duct cover-Mounting bracket	8.	LED driver
3.	Hood casing	9.	Capacitor
4.	LED light	10.	Squirrel cage
5.	Control board	11.	Stainless steel spacer
6.	Processor board	12.	Baffle filter

# N. Circuit Diagrams

Fig.23 Details the internal electrical circuit of this range hood unit. Any faults with this unit should only be attended to by a qualified technician.

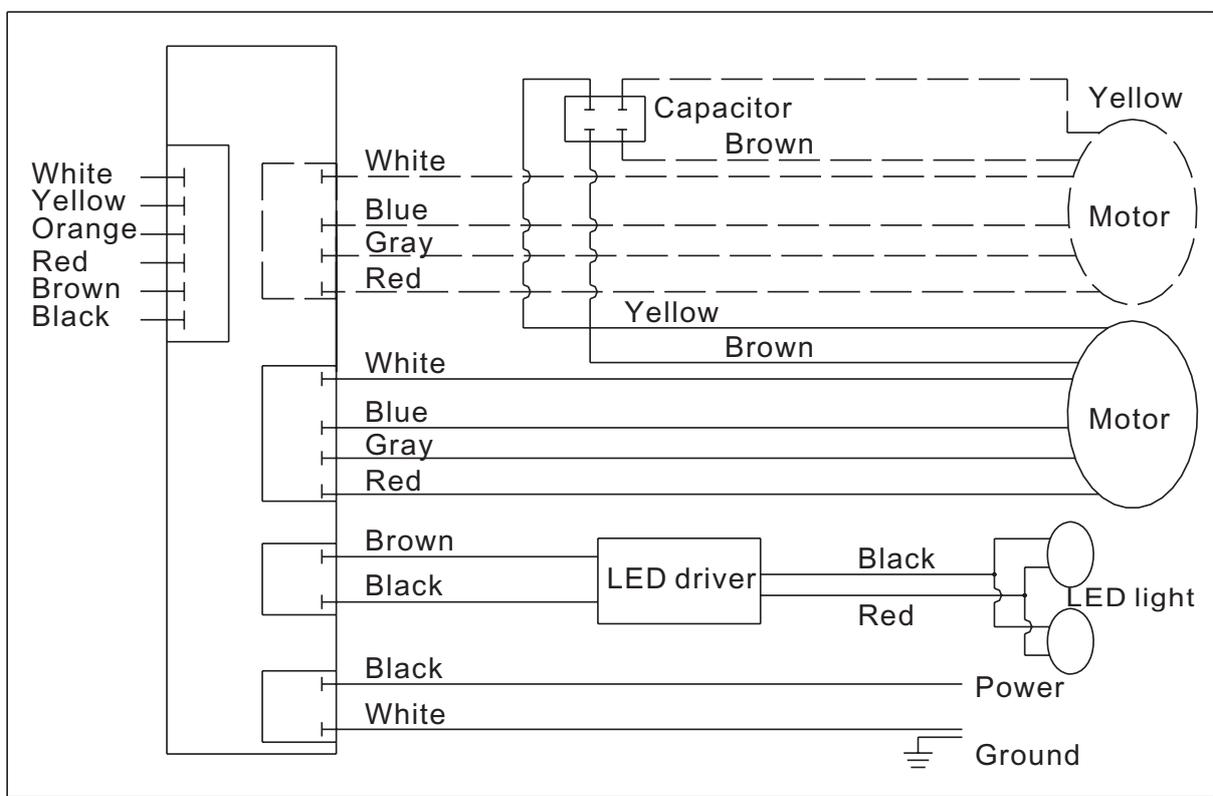


Fig.23 Electrical Schematic Diagram

## O. Accessories

Spare Parts Contents					Spare Parts Contents				
Item	Part	Description	Spec.	Q'ty	Item	Part	Description	Spec.	Q'ty
1		Manual		1	4		Screws	Ø4x32	4
2		Round Collar	6"/7"	1			Screws	Ø3/16"x3"	2
3		Toggle Bolts	#3/16"x3"	2			Plastic Screws	1/4"	4

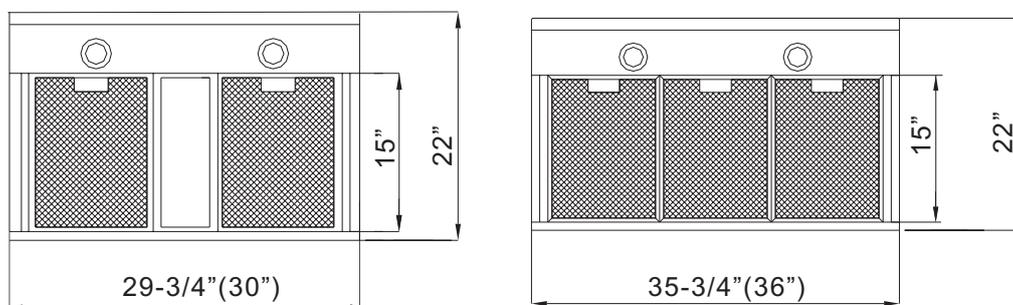
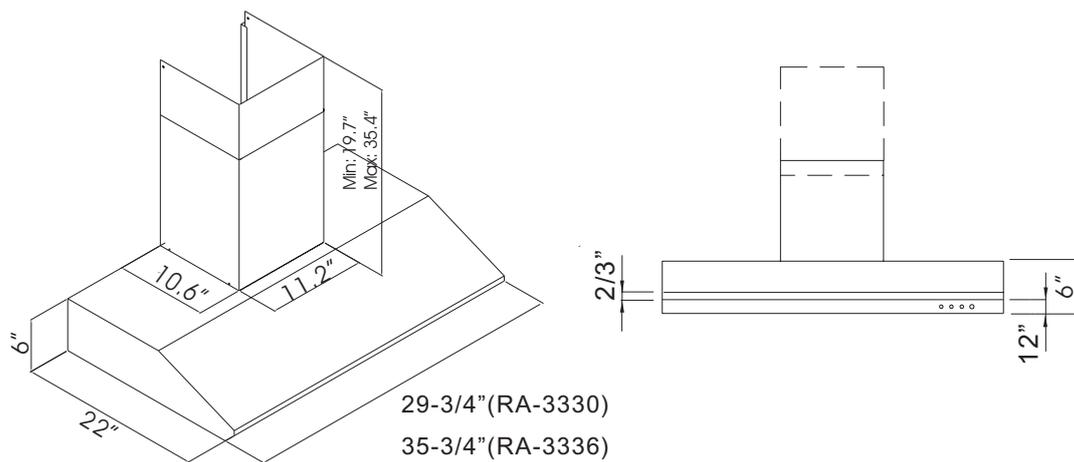
## P. Specifications

Specifications	RA-3330C / RA-3336C RA-3430B / RA-3436B / RA-3442B	RA-3448B
Revolutions	Low - 590± 50 R.P.M. High - 1650± 50 R.P.M.	
Consumption - Motor	180W	
Consumption - Lamp	1W x 2 / 3.6Vdc / 1500maH	x 3
Rotation	Squirrel Cage	
Diameter Exhausting Duct	6" / 7" Round Outlets adapter	
Voltage	120V / 60 Hz	
Appearance Treatment	Brushed Stainless Steel	

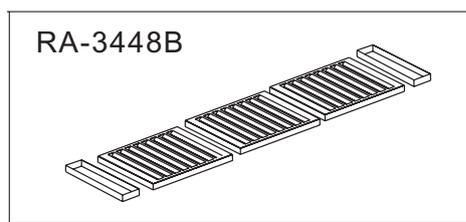
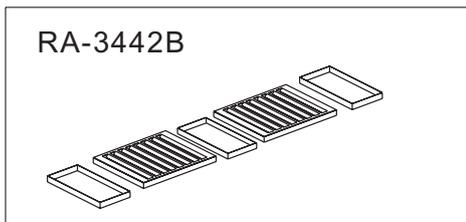
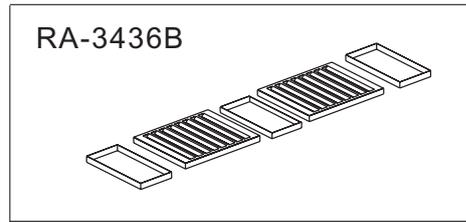
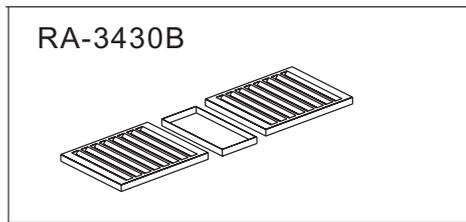
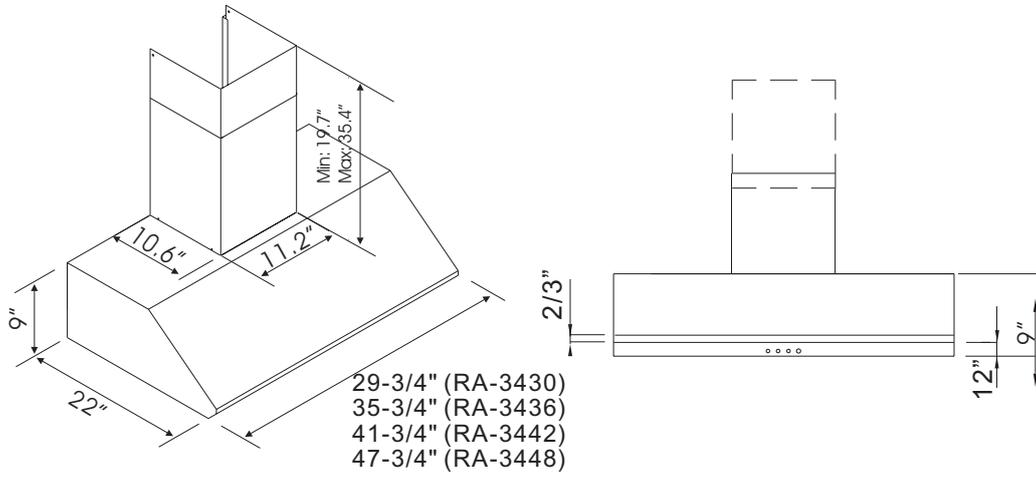
Specifications	RA-3530 / RA-3536 / RA-3542	RA-3548
Revolutions	Low - 690± 50 R.P.M. High - 1660±50 R.P.M.	
Consumption - Motor	180W	
Consumption - Lamp	1W x 2 / 3.6Vdc / 1500maH	x 3
Rotation	Squirrel Cage	
Diameter Exhausting Duct	6" / 7" Round Outlets adapter	
Voltage	120V / 60 Hz	
Appearance Treatment	Brushed Stainless Steel	

\* Specifications subject to change without prior notice.

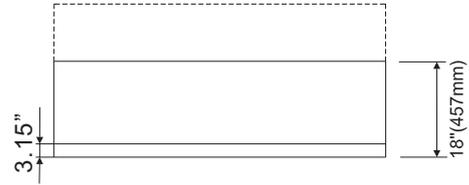
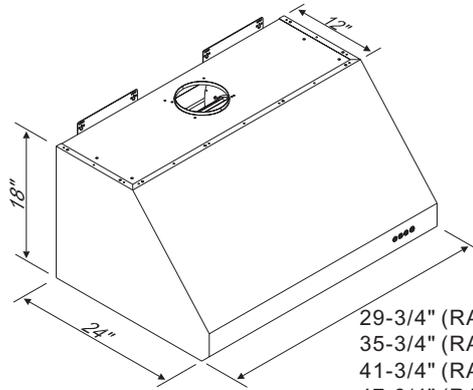
## Q. Diagrams



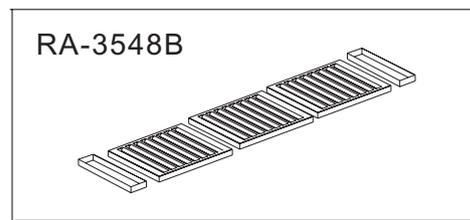
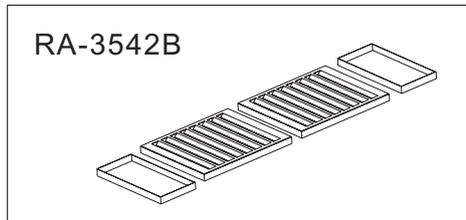
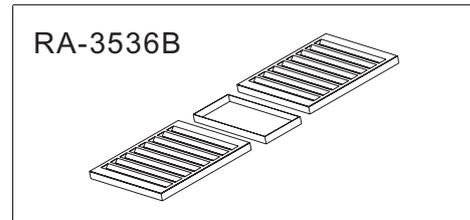
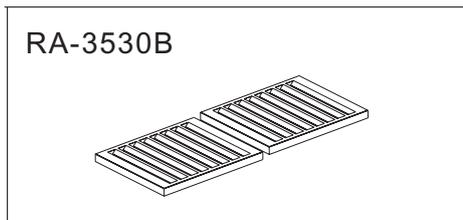
ⓘ Model : RA-3330 : W 29-3/4" x D 22" x H 6"  
 RA-3336 : W 35-3/4" x D 22" x H 6"



- Model : RA-3430 : W 29-3/4" x D 22" x H 9"
- RA-3436 : W 35-3/4" x D 22" x H 9"
- RA-3442 : W 41-3/4" x D 22" x H 9"
- RA-3448 : W 47-3/4" x D 22" x H 9"



29-3/4" (RA-3530)  
 35-3/4" (RA-3536)  
 41-3/4" (RA-3542)  
 47-3/4" (RA-3548)



📌 Model : RA-3530B : W 29-3/4" x D 24" x H 18"  
 RA-3536B : W 35-3/4" x D 24" x H 18"  
 RA-3542B : W 41-3/4" x D 24" x H 18"  
 RA-3548B : W 47-3/4" x D 24" x H 18"

# WINDSTER™

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## Limited Warranty

**Windster Hoods Inc.** warrants this product against defects in material or workmanship as follows:

- 1) **Labor:** For a period of one (1) year from the date of purchase, if this product is determined to be defective, Windster will repair or replace the product, at its option, at no charge. After the warranty period, you must pay for all labor charges. During the “labor” warranty period there will be no charge for labor.
- 2) **Parts:** In addition, Windster will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of two (2) years. After the warranty period, you must pay for all parts costs. During the “parts” warranty period, there will be no charge for parts

You must carry-in or mail-in your product during the warranty period. This warranty only applies to products purchased and serviced in the United States or Canada.

## What Is Not Covered By These Warranties:

- 1) Conditions and damages resulting from any of the following:
  - Improper installation, delivery, or maintenance.
  - Any repair, modification, alteration or adjustment not authorized by the manufacturer or an authorized service dealers.
  - Misuse, abuse, accidents, or unreasonable use.
  - Incorrect electric current, voltage or supply.
  - Improper setting of any control.
  - Improper chemical cleaning.
- 2) Light Bulbs
- 3) Products purchased for commercial or industrial use (such as in a hotel, office, restaurant, or other business)
- 4) Damage due to earthquake, flood, storm, etc.

# WINDSTER™

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## **Defective Products:**

All products will be inspected, tested, and carefully packed by the manufacturer before shipping to customers. Products that are damaged during transit can only be exchanged for the same product, under the condition that the customer must get a RMA (Return Merchandise Authorization) from Windster. When products are received defective, you must notify us within the 3 business days of receiving the package. Replacement products are only shipped when the RMA is issued. NO EXCEPTIONS.

## **Return Policy**

Windster offers only the best and highest quality products. If you are not satisfied with your purchase, please contact us within 3 business days of product arrival to obtain a Return Merchandise Authorization (RMA). Returns sent without a RMA will not be accepted. There will be a 25% re-stocking fee for every returned items. Shipping fee will also be deducted from the original purchase price. When returning a package, please include a copy of your purchase receipt. Use the original shipping box and packing materials and completely remove or cover the original shipping label. Make sure that products are in brand new condition, uninstalled, un-drilled, and contain everything that came with the package as when you first received it. If any parts or manuals are missing, we have the right not to accept the return.

We suggest that you use a traceable and reputable carrier of your choice to ship your return. Your credit or refund will be processed within 10-14 business days from the date we receive your return.

**WINDSTER™**

[www.windsterhood.com](http://www.windsterhood.com)

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Specifications subject to change without notice.