

# Range Hood Hotte de la cuisine Campana de cocina

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Installation Instructions Guide  
Guide d'instructions d'installation  
Guía de Instrucciones para Instalación

NK36R5000WG/AA, NK30R5000WG/AA  
NK36R5000WS/AA, NK30R5000WS/AA

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# Important Safety Instructions

## APPROVED FOR RESIDENTIAL APPLIANCES FOR RESIDENTIAL USE ONLY READ AND SAVE THESE INSTRUCTIONS

### PLEASE READ ENTIRE INSTALLATION GUIDE BEFORE PROCEEDING. INSTALLATION MUST COMPLY WITH ALL LOCAL CODES.

- IMPORTANT:** Save these Instructions for the Local Electrical Inspector's use.
- INSTALLER:** Please leave these Instructions with this unit for the owner.
- OWNER:** Please retain these instructions for future reference.

#### Symbols used in this manual

##### **WARNING**

Hazards or unsafe practices that may result in severe personal injury or death.

##### **CAUTION**

Hazards or unsafe practices that may result in electric shock, personal injury, or property damage.

##### **NOTE**

Useful tips and instructions

These warning icons and symbols are here to prevent injury to you and others. Please follow them explicitly. After reading this section, keep it in a safe place for future reference.

##### **WARNING**

Turn off the power circuit at the service panel and lock out panel before wiring this appliance.  
Requirement 120 VAC, 60 Hz. 15 or 20 A Branch Circuit

##### **WARNING**

Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

##### **WARNING**

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

- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning the unit, switch the power off at the service panel and lock the service 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.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into the wall or ceiling; do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.

##### **CAUTION**

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

##### **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.

##### **WARNING**

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

##### **CAUTION**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

##### **CAUTION**

Children should be supervised to ensure that they do not play with the appliance.

##### **WARNING**

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

- 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.
- Always turn the hood ON when cooking at high heat or when flambeing food (i.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambe).
- Clean ventilating fans frequently. Grease should not be allowed to accumulate on the fan or filter.
- Use proper pan sizes. Always use cookware appropriate for the size of the surface element.

##### **WARNING**

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING PRECAUTIONS:<sup>a</sup>

- **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.**
- **NEVER PICK UP A FLAMING PAN** - you may be burned.
- **DO NOT USE WATER**, including wet dishcloths or towels - a violent steam explosion will result
- Use an extinguisher **ONLY** if:
  - You know you have a class ABC extinguisher, and you already know how to operate it.
  - The fire is small and contained in the area where it started.
  - The fire department is being called.
  - You can fight the fire with your back to an exit.

<sup>a</sup>Based on "Kitchen Fire Safety Tips" published by NFPA.

##### **WARNING**

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

##### **WARNING**

Do not let children near this appliance. Do not let children play with this appliance.  
Keep all packaging materials out of children's reach. Properly dispose the packaging materials after this appliance is unpacked.

##### **NOTE**

Suitable for use in household cooking area.

## Read and save this instructions

# Installation Requirements

## 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. A copy of the above code standards can be obtained from:

National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02169-7471  
CSA International  
8501 East Pleasant Valley Road  
Cleveland, OH 44131-5575

### Other Requirements

- A 120 volt, 60 Hz., AC only, 15-amp, fused electrical circuit is required.
- If the house has aluminum wiring, follow the procedure below:
  1. Connect a section of solid copper wire to the pigtail leads.
  2. Connect the aluminum wiring to the added section of copper wire using special connectors and/or tools designed and UL listed for joining copper to aluminum.
- Follow the electrical connector manufacturer's recommended procedure. Aluminum/copper connections must conform with local codes and industry accepted wiring practices.
- Wire sizes and connections must conform with the rating of the appliance as specified on the model/serial rating plate. The model serial plate is located behind the filter on the rear wall of the range hood.
- Wire sizes must conform to the requirements of the 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.
- A U.L.- or C.S.A.-listed conduit connector must be provided at each end of the power supply conduit (at the range hood and at the junction box).

If an electrical connection is accessible, connect the hood to an outlet that complies with current codes and regulations and ensure that the outlet is in a position where the hood can be installed. If an electrical connection is not accessible in the install location (direct connection to the electrical network) or the outlet will not be in a position for installation, place an approved bipolar switch in an accessible position that provides full disconnection under Overvoltage Category III conditions, in accordance with local wiring rules. When the product is connected by a plug to the outlet, the plug must remain visible after installation of the product.

### Before installing the Hood

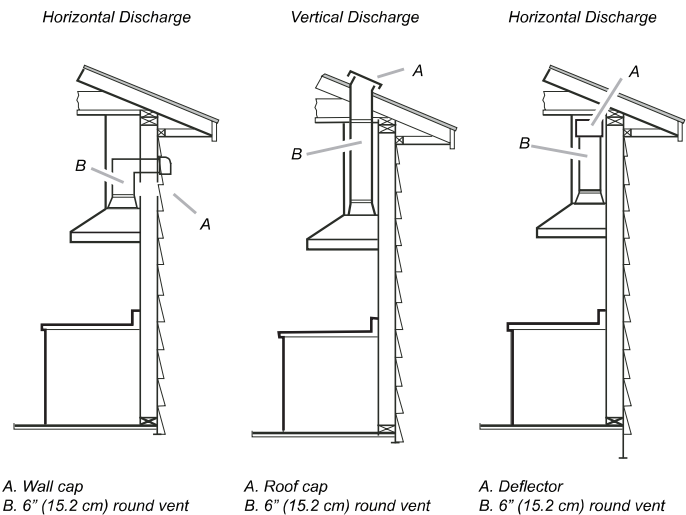
- The Vent system must terminate outdoors.
- For the most efficient air flow exhaust, use a straight run or as few elbows as possible. **CAUTION:** Vent unit to outside of building, only.
- At least two people are necessary for installation.
- Fittings material are provided to secure the hood to most types of walls and ceilings. Consult a qualified installer to confirm that the fittings are suitable for your cabinets, walls, and ceiling.
- Do not use flexible ducting.
- **COLD WEATHER** installations should have an additional backdraft damper installed to minimize backward cold air flow and a nonmetallic thermal break to minimize conduction of outside temperatures as part of the ductwork. The damper should be on the cold air side of the thermal break. The break should be as close as possible to where the ducting enters the heated portion of the house.

## Venting Methods

Closely follow the instructions set out in this manual. Samsung is not responsible for any eventual inconveniences, damages or fires caused by not complying with the instructions in this manual.

### Ducting version

The hood is equipped with a 6" (15.2 cm) round transition for discharge of fumes to the outside.



### Preparation

Do not cut a joist or stud unless absolutely necessary. If a joist or stud must be cut, then a supporting frame must be constructed. Fittings material are provided to secure the hood to most types of walls/ceilings. However, a qualified technician must verify that the fittings are suitable for your cabinets, walls, and ceiling. Before making cutouts, make sure there is proper clearance within the ceiling or wall for the exhaust vent.

### Ductless version (Recirculating)

For installations where cooking fumes and vapor cannot be discharged to the outside, attach a charcoal filter and the deflector on the duct cover support bracket. Fumes and vapors will be recycled through the top grille by a duct connected to the transition and the transition mounted on the deflector.

### NOTE

For horizontal discharge only: purchase the Ductless Recirculating Kit. Minimum Duct Size: 6" Round Pipe.

### CAUTION

- For electric/induction cooktop & range installations: Mount the hood so the bottom is at least 24" (61cm) above the cooking surface.
- For gas cooktop & range installations: Mount the hood so the bottom is at least 27" (68.6 cm) above the cooking surface.
- For both, mount no higher than 36" (91.4 cm) above the cooking surface.
- Measure the mounting height from the surface of the range to the bottom of the hood.

### WARNING

This hood is intended for household use.

**PLEASE READ THE INSTALLATION MANUAL FOR THE HOOD'S SPECIFIC APPLICATION.** Check your ceiling height and the hood's height before selecting your hood.

# Installation Requirements

## Tools and Parts

Removing the packaging

### ⚠ CAUTION




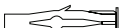



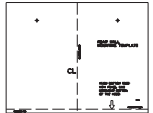

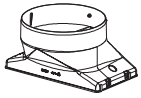
Remove the carton carefully. Wear gloves to protect against sharp edges.

### ⚠ WARNING

Remove the protective film covering the product before putting it into operation.

Parts supplied

- Hood assembly with blower and LED lamps already installed.
- Hardware bag with:

Part	Qty	Part	Qty
 5x45 mm	6	 8x40 mm	2
 5.4x75 mm	4	 10x60 mm	4
 3.5x9.5 mm	2	 Duct cover bracket	1
 2.9x6.5 mm	2	 Mounting template	1
 Duct Covers	2	 6" round transition	1

## Tools/Materials required

- Level
- Drill with 1¼" (3.2 cm), ½" (3.2 mm), and ¼" (4.8 mm) drill bits
- Pencil
- Wire stripper or utility knife
- Tape measure or ruler
- Pliers
- Caulking gun and weatherproof caulking compound
- Jigsaw or keyhole saw
- Metal snips
- Screwdrivers:
  - Phillips
  - Flat - blade

## Parts needed

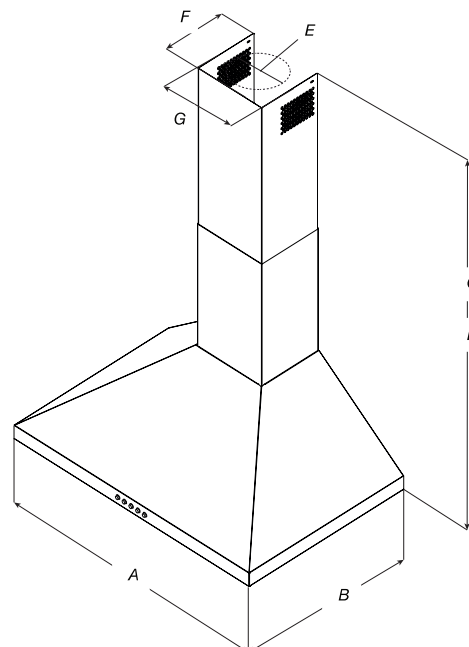
- Home power supply cable
- ½" (12.7 mm) UL listed or CSA approved strain relief
- 3 UL listed wire connectors
- 1 wall or roof cap
- Metal vent system

## Optional accessories and consumable parts

MODEL	NK30R5000WS NK36R5000WS	NK30R5000WG NK36R5000WG
Extension Kit	NK-AE505PWS/AA	NK-AE505PWG/AA
Recirculating Kit	NK-AF020FNB/AA	
Charcoal Filter	NK-AR040FNB/AA	

\* Order the needed kit specifying your hood model.

## Dimensions and Clearances



	NK30R5000WS NK36R5000WS	NK30R5000WG NK36R5000WG
A	30" (76.2 cm)	36" (91.2 cm)
B	19 11/16" (50 cm)	
C*	Max: 42 1/8" (107 cm) Min: 28 3/16" (72 cm)	
D**	Max: 38 3/16" (97 cm) Min: 28 3/16" (72 cm)	
E	6" (15.24 cm)	
F	7 3/16" (18.3 cm)	
G	8 3/16" (20.8 cm)	

\* Ductless (Recirculating) version

\*\* Ducted version



# Installation

## Installation Instructions

We recommend that a qualified technician install the range hood. It is the installer's responsibility to ensure the range hood complies with the installation clearances specifications for the product.

- It is recommended that the vent system be installed before the hood is installed.
- Before making cutouts, make sure there is proper clearance within the ceiling or wall for the exhaust vent.
- Confirm that all installation parts have been removed from the shipping carton.

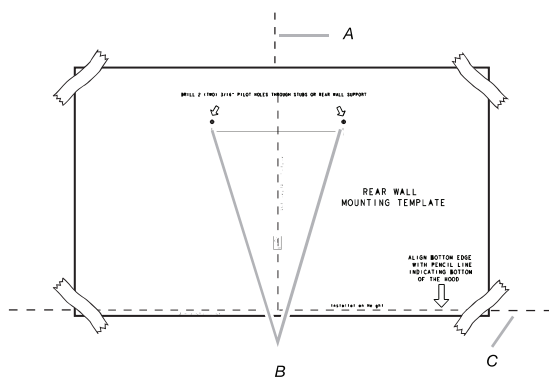
### ⚠ WARNING

To reduce the risk of fire, electric shock, or injury to persons, observe the following.

- Shut off power to the circuit you will be attaching the hood to at the circuit breaker panel or fuse box.
- Determine which venting method to use: roof, wall, or nonvented.
- Select a flat surface for assembling the range hood. Place a covering over that surface.
- Always have 2 or more persons lift or move the range hood.

### Mounting the duct cover bracket

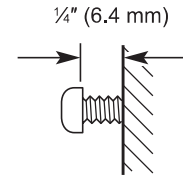
1. Determine and mark the centerline on the wall where the canopy hood will be installed. Shut off power at the circuit breaker panel or fuse box.
2. Select a mounting height of no less than 24" (61 cm) above an electric cooking surface or 27" (68.6 cm) above a gas cooking surface.
3. Tape the template in place, aligning the template center line and bottom with the hood center line and hood bottom line marked on the wall.



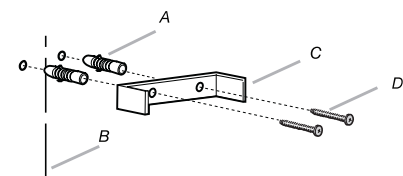
A. Centerline  
B. Fastener locations  
C. Mounting height reference (hood bottom line)

4. Mark the centers of the fastener locations on the wall by pushing a pencil point through the template.  
**IMPORTANT:** All screws must be installed into the wood studs or framing. If there is no wood to screw into, additional wall framing supports may be required.
5. Remove the template.

6. Drill  $\frac{3}{16}$ " (4.8 mm) pilot holes at all locations where screws are going to be installed into wood.
7. Install the 2 - 5 x 45 mm mounting screws. Leave a  $\frac{1}{4}$ " (6.4 mm) gap between the wall and the back of the screw head to slide the range hood into place.



8. Attach the vent cover bracket to the wall flush to the ceiling using 2 - 5 x 45mm screws.



A. 8 x 40 mm anchors  
B. Centerline on wall  
C. Vent cover support bracket  
D. 5 x 45 mm screws

### Complete preparation

1. Determine and make all necessary cuts in the wall for the vent system. Install the vent system before installing the hood. See "Venting Requirements" section.
2. Determine the required height for the home power supply cable and drill a  $1\frac{1}{4}$ " (3.2 cm) hole at this location.
3. Run the home power supply cable according to the National Electrical Code or CSA Standards and local codes and ordinances. There must be enough  $\frac{1}{2}$ " conduit and wires from the fused disconnect (or circuit breaker) box to make the connection in the hood's electrical terminal box.

### 📖 NOTE

Do not turn on power until the installation is complete.

4. Use caulk to seal all openings

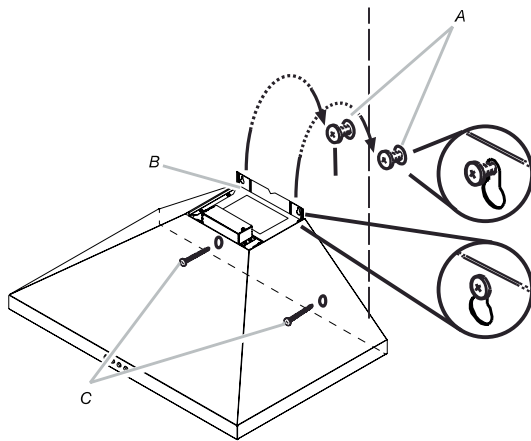
# Installation

## Install the Range Hood

### ⚠ WARNING

USE TWO OR MORE PEOPLE TO MOVE AND INSTALL THE RANGE HOOD. FAILURE TO DO SO CAN RESULT IN BACK OR OTHER INJURY.

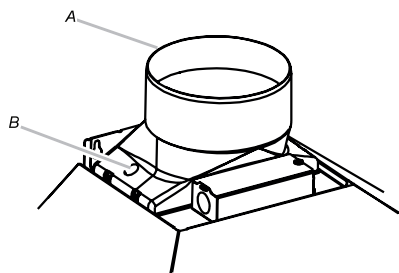
1. Mark the lower mounting hole locations with a pencil .
2. Uninstall the hood assembly, and drill  $\frac{3}{16}$ " (4.8 mm) pilot holes at the marked locations.
3. Hang the range hood again on 2 the upper mounting screws.
4. Level the range hood and tighten the upper mounting screws.
5. Install 2 - 5 x 45 mm lower mounting screws and tighten. Use the optional wall anchors if needed.



A. Mounting screws  
B. Mounting slots  
C. Lower mounting screws

## Connect the vent system

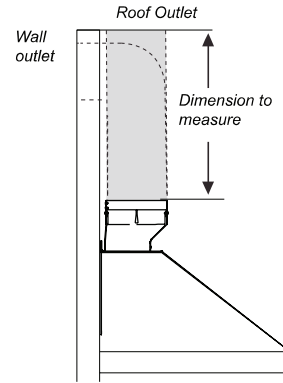
1. Install the transition on top of the hood (if removed for shipping) with 2-3.5x9.5 mm sheet metal screws.



A. Vent transition  
B. 3.5 x 9.5 mm screw

## For vented installations only

1. Fit the vent system over the exhaust outlet.
2. Measure from the bottom of the air deflector to the bottom of the hood outlet. Cut the ductwork at the measured dimension.



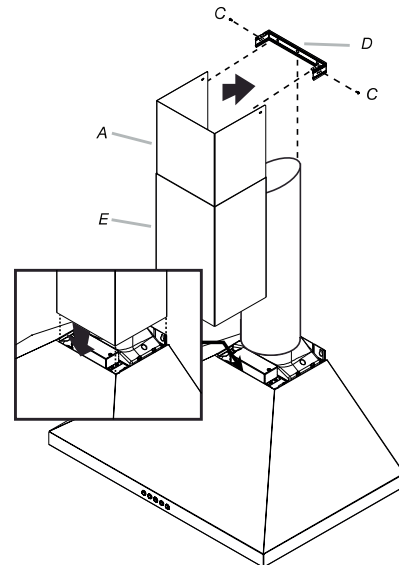
3. Seal the connection with clamps.
4. Confirm that the back draft dampers work properly

## Install the Duct Covers

When using both upper and lower vent covers, push the lower cover down onto the hood and lift the upper cover to the ceiling, and then install with two mounting screws.

### NOTE

For vented installations, the upper vent cover may be reversed to hide slots.



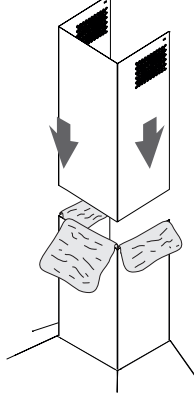
A.. Upper vent cover  
B. Lower vent cover

C. 2.9 x 6.5 mm screws  
D. Bracket

# Installation

## NOTE

To prevent scratches, lay paper or a kitchen towel over the edges of the lower flue duct to protect the surface.



## Complete Installation

- For non-vented (recirculating) installations only, install charcoal filters over metal grease filter. See the "Accessories" section.
- Install metal filters. See the "Maintenance" section.

## Electrical Connection

### ⚠ WARNING

Electrical shock hazard.

### ⚠ WARNING

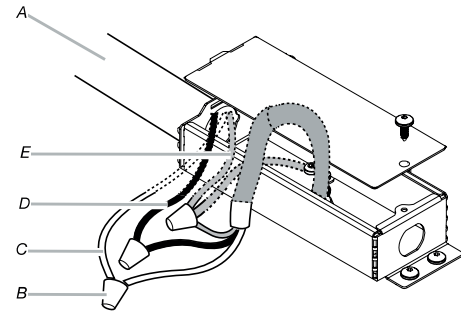
Shut off power at the circuit breaker panel or fuse box before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock.

### ⚠ WARNING

Electrically ground the blower.

Connect the ground wire to the green and yellow ground wire in the terminal box. Failure to do so can result in death or electrical shock.

1. Shut off power at the circuit breaker panel or fuse box.
2. Remove the terminal box cover.
3. Remove the knockout in the terminal box cover and install a UL listed or CSA approved  $\frac{1}{2}$ " strain relief.
4. Run the home power supply cable through the strain relief, into the terminal box.



A. Home power supply cable  
B. UL listed wire connectors  
C. White wires (N)

D. Black wires (L)  
E. Green (or bare) and  
yellow-green ground

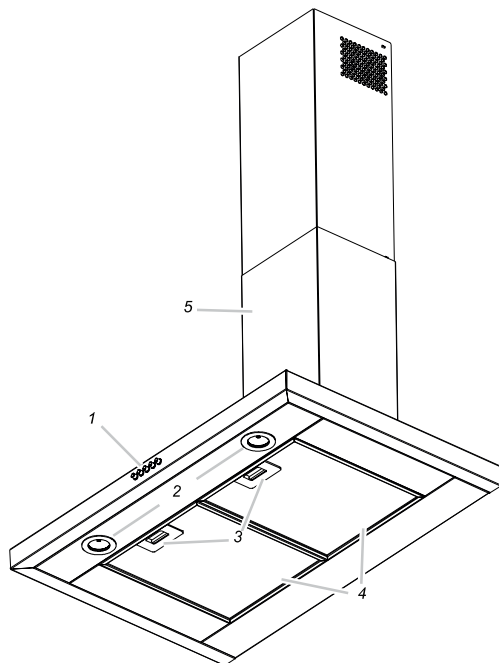
5. Use UL listed wire connectors and connect the black wires (D) together.
6. Use UL listed wire connectors and connect the white wires (C) together.
7. Connect the green (or bare) ground wire from the home power supply to the yellow-green ground wire (E) in the terminal box using UL listed wire connectors.
8. Tighten the strain relief screw.
9. Install the terminal box cover.
10. Turn on the power.

To get the most efficient use from your new range hood, read the "Maintenance" section. Keep your Use, Care, and installation Guide close to the range hood for easy reference.



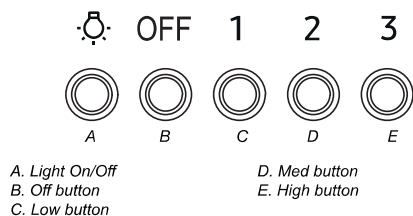
# Range Hood Use and Care

## Description of the Hood



- 1. Blower and light controls
- 2. LED lamps
- 3. Grease filter handle
- 4. Grease filters
- 5. Duct covers

## Control



### Operating the light

The Light On/Off button (A) controls both lights. Press once for On and again for Off.

### Operating the blower

The Blower OFF button (B) turns the blower off.

The Blower Speed buttons (C,D,E) set the desired speed and control the sound level for quiet operation. The speed can be changed anytime during fan operation by pressing the desired blower speed button.

1. To Turn the Blower On, press a Blower Speed button (C,D,E).
2. To Turn the Blower off, press the Blower OFF Button (B).

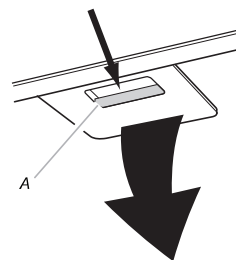
## Maintenance

### Cleaning

Do not spray cleaners directly onto the controls while cleaning the Hood. The hood should be cleaned regularly internally (at least as often as you clean the grease filters and externally. Clean using a cloth dampened with neutral liquid detergent. Do not use abrasive products. **DO NOT USE ALCOHOL!**

### Grease Filter

Traps cooking grease particles. The grease filter must be cleaned once a month using a mild detergent, either by hand or in a dishwasher, which must be set to a low temperature and a short cycle. When washed in a dishwasher, the grease filter may discolor slightly, but this does not affect its filtering capacity. To remove the grease filter, pull the spring release handle.



A. Spring release handle

### ⚠ WARNING

Failure to carry out these basic cleaning recommendations for the hood and failure to clean the grease filter may cause fire risks. Therefore, we strongly recommend you follow these instructions. Samsung is not responsible for any damage to the motor or for any fire damage linked to inappropriate maintenance or failure to observe these cleaning and safety recommendations.

### Replacing a LED lamp

The LED lights are replaceable by a service technician only. See the warranty for service contact information.

# Range Hood Use and Care

## Accessories

### For non-vented (recirculating) installation only

#### NOTE

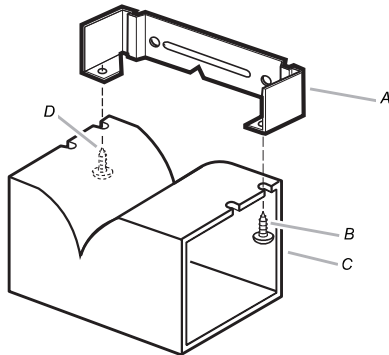
To reduce the risk of fire or shock when the hood is used in recirculation mode, use only the conversion kit models listed below:

Recirculating kit: NK-AF020FNB/AA

Charcoal Filter Replacement kit: NK-AR040FNB/AA

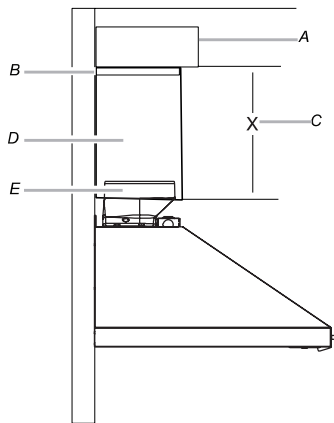
To attach the recirculation kit, follow these steps:

1. Assemble the air deflector with the duct cover bracket with 2 - assembly screws provided with the Recirculation Kit.



A. Vent cover bracket  
B. 2.9 x 6.5 mm screws  
C. Deflector

2. Measure from the bottom of the air deflector to the bottom of the hood outlet.



A. Air deflector  
B. Vent clamp  
C. X = length to cut vent duct  
D. Vent duct  
E. Exhaust outlet

3. Cut the duct to the measured size (X).
4. Remove the air deflector.
5. Slide the duct onto the bottom of the air deflector.
6. Place the assembled air deflector and duct over the exhaust outlet from the hood.
7. Re-attach the air deflector to the duct cover bracket with 2 assembly screws.
8. Seal the connections with vent clamps

## Charcoal filter

The charcoal filter is not washable. It should last up to 6 months with normal use. Replace with Charcoal Filter Replacement Kit.

To replace charcoal filter:

1. Remove the metal grease filter from the range hood.
2. Bend the spring clips away from the metal grease filter.



3. Place the charcoal filter into the top side of metal filter.
4. Insert the metal grease filter back into the range hood.

# Range Hood Use and Care

## Range Hood for ADA Compliance

Range hoods can be installed to comply with Sections 308 and 309 of ADA Guidelines, when used with appropriately mounted controls installed at 15" (38.1 cm) to 40" (101.6 cm) above the floor and control access does not require reaching over a cooking appliance.

The following range hoods NK30R5000WS, NK36R5000WS, NK30R5000WG, NK36R5000WG can work in an ADA Compliant situation when the range hood is wired to operate from a dedicated, standard electrical wall switch. To facilitate this application, share the information on the following pages with your electrician when preparing for the installation.

### NOTE

All the models can be controlled by only one remote switch (The switch activates or deactivates the motor and the light of the hood).

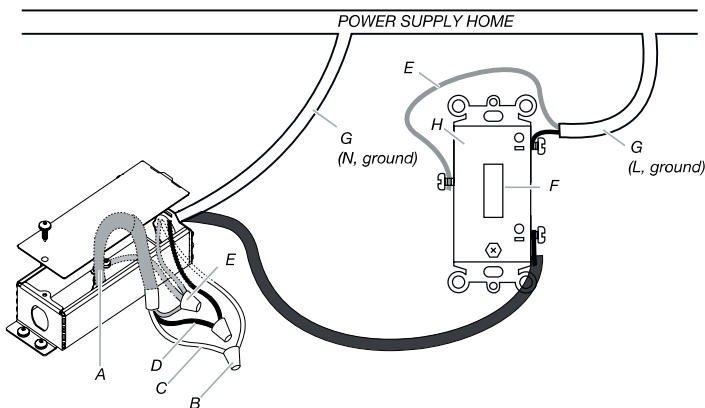
### WARNING

All electrical work must be done in accordance with local codes, ordinances, or the national electrical code as applicable. For safety, this product must be installed in a grounded switch box. The electrical wiring installation must be done by a qualified technician.

### WARNING

#### Electrical Shock Hazard

Turn off power at the circuit breaker panel or fuse box before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock.



- A. Range Hood Cable
- B. UL listed wire connector
- C. White wires (N)
- D. Black wires (L)
- E. Green (or bare) and yellow-green ground

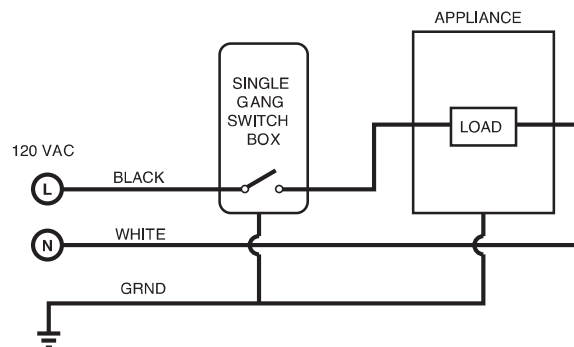
- F. UL listed switch
- G. Home power supply cable
- H. Deep single gang switch box

### WARNING

To avoid fire or electrical shock, turn off power at the circuit breaker

panel or fuse box. Confirm that the power is off before wiring.

1. MOUNT THE SWITCH BOX . Install a 3½" deep single gang switch box
2. ATTACH THE POWER CABLE. Clamp wiring to the switch box and unit using an appropriate clamp. Provide 6" leads inside the box and fan for easier wiring.
3. CONNECT THE WIRING. General instructions:
  - Make sure both the switch box and the appliance are properly grounded.
  - Make sure the ground wire is securely fastened to the control's ground screw. Tighten the ground screw.
  - Use proper wire nut sizes for the number and size of the wires.
  - For push-in and screw terminals: Use min. #14 AWG solid copper wire only.
  - Tighten the screw terminals.
  - Make electrical connections following the appropriate diagram.



4. MOUNT THE CONTROL IN THE SWITCH BOX. Tuck wires into the switch box and fasten the control to the box using the attached screws.
5. ATTACH THE SWITCH PLATE. Fasten the switch plate to the control using the short screws from the parts bag.