Electrical & 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.

Do not ground to a gas pipe.
Check with a qualified electrician if you are not sure range hood is properly grounded.
Do not have a fuse in the neutral or ground circuit.

IMPORTANT

Save Installation Instructions for electrical inspector's use.

The range hood must be connected with copper wire only.

The range hood should be connected directly to the fused disconnect (Or circuit breaker) box through metal electrical conduit.

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).

Copies of the standards listed may be obtained from:

* National Fire Protection Association Batterymarch Park Quincy, Massachusetts 02269

** CSA International 8501 East Pleasant Valley Road Cleveland, Ohio 44131-5575

- These vent hoods must be power supplied 120 V, 60 Hz, and connected to an individual, properly grounded branch circuit, and protected by 15 or 20 Amps circuit breaker or fuse.
- Wiring must be two wire with ground.
- If the electrical supply does not meet above requirements, call a licensed electrician before proceeding.
- Route house wiring as close to the installation location as possible, in the ceiling or back wall.
- The hood must be connected to the house wiring in accordance with the local codes.
  CAUTION: This appliance should be properly grounded.

List of Materials

Parts supplied

Removing the packaging

CAUTION!
Remove carton carefully, Wear gloves to protect against sharp edges.

WARNING!
Remove the protective film covering the product before putting into operation.

- Hood structure assembly with blower, transition.
- Lamp already installed.
- 2 Grease filters 30” or 3 Grease filters 36”.
- Duct cover.

Hardware bag with:

- Template
- Duct cover support bracket (1 piece)
- Use, care and installation guide
- Wood screws (6 pieces - 3/16” x 1” 3/4)
- Concrete wall anchors (6 pieces - 1/8” x 3/8”)
- Assembly screws (4 pieces)

Parts not supplied

Optional Accessories

- Telescopic duct cover to fit ceiling height from 8’ to 10’
- Recirculation KIT
- Non return valve

Tools/Materials required

- Duct tape
- Wire nuts
- Masking tape
- 8” rounded metal duct (lenght to suit installation)
- Pliers
- Gloves
- Knife
- Safety glasses
- Electric drill with 5/16” and 3/8” Bits
- Strain relief
- Spirit level
- Duct tape
- Screwdrivers:
  - Phillips (Posidrive) # 2
  - Torx #2
- Wire cutter/stripper
- Hammer
- Saw, jig saw or reciprocating saw

Installation Requirements

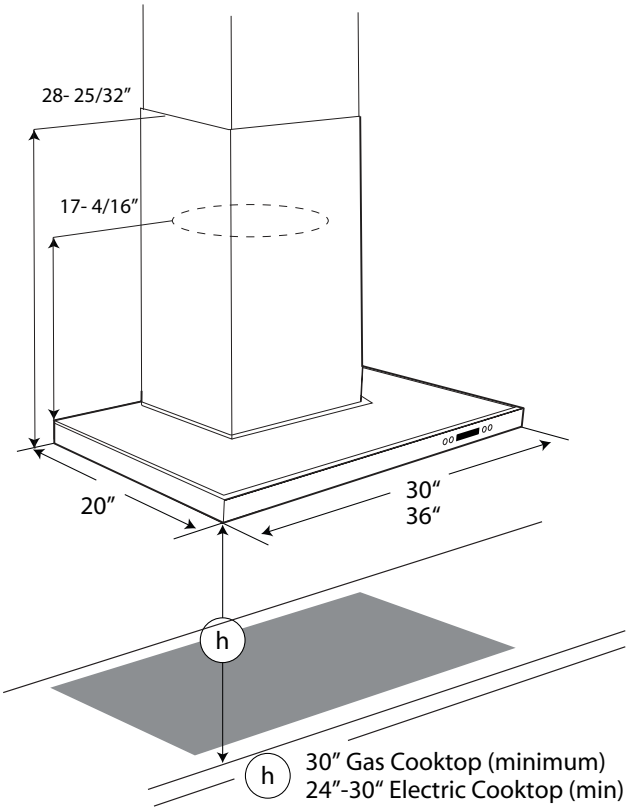
Before installing the hood

- 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 needed for installation.
- On average one to three hours are necessary to complete installation (without considering cut to be done on wall and/or on cabinet, installation ducts, conduit and electrical connections to the mains).
- The hood is fitted with screws and wall anchors suitable for most surfaces, consult a qualified installer, check if they perfectly fit with your cabinet/wall.
- Do not use flex ducting.
- COLD WEATHER installations should have an additional non return valve (Accessory not provided with the hood) installed to minimize backward cold airflow and a thermal break to minimize conduction of outside temperatures as part of the duct work. The damper should be on the cold air side of the thermal break.
- Makeup air local building codes may require the use of makeup air systems when using ducted ventilation systems greater than specified CFM of air movement. Consult your HVAC professional for specific requirements in your area.

Product Dimensions & Clearances



Installation Instructions

The vent hood must be installed above the cooking surface at 30” (minimum) if a gas range is used or from 24” (minimum) to 30” if an electric range is used.
If the customer needs that the duct cover reaches from 8’ to 10’ ceilings height, then an additional telescopic duct cover accessory is needed.
The hood may be installed onto a wall and vented to the outdoors, or it can be installed for recirculating operation (recirculating accessories not supplied with the hood).
This hood must not be installed over any professional cooktop / range.

Installation preparation

Advance planning

- Determine the exact location of the vent hood.
- Plan the route for venting exhaust to the outdoors.
- Use the shortest and straightest duct route possible. For satisfactory performance duct run should not exceed 100’ equivalent length for any duct configurations.
- Refer to “Duct Fittings” chart to compute the maximum permissible length for duct runs to the outdoors.
- Install a wall cap with damper or roof cap at the exterior opening. Order the wall or roof cap and any transition needed in advance.
- Use 8” round metal ductwork only.

Wall framing for adequate support

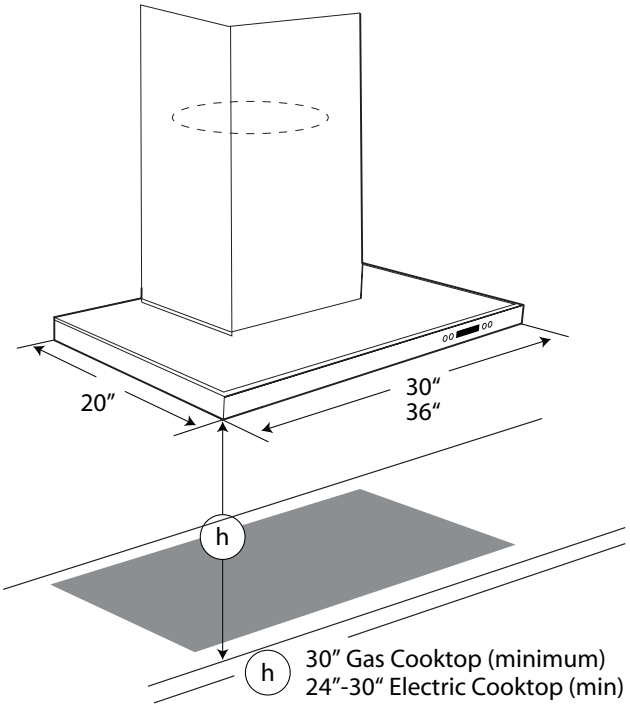
- This vent hood is heavy. Adequate structure and support must be provided in all types of installations.
- If mounting on dry wall, the hood must be secure to vertical studs in the wall, or to a horizontal support.
- The vent hood should be on site before final framing and wall finishing. This will help to accurately locate the duct work and electrical service.
- Installation will be easier if the vent hood is installed before the cook-top and countertop are installed.

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 into operation.

Ductwork and wiring locations

- Determine the exact location of the vent hood.
- Locate the template packed with the literature.
- The height installation is determined by the following image. Mark the location.

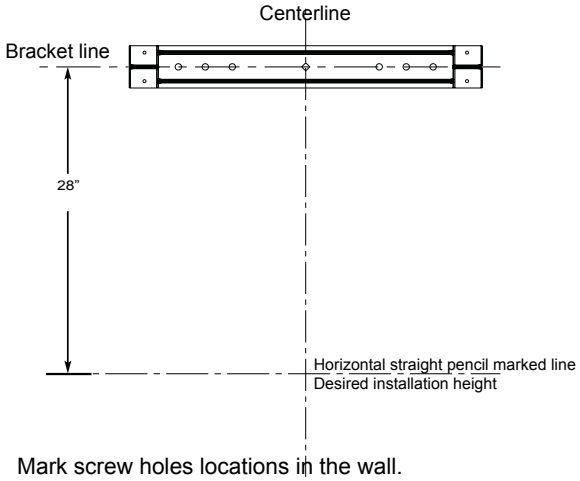


- Installation height: 30” (minimum) gas cooktop/range or 24” (minimum) to 30” electric cooktop/range.
- Use a level to draw a horizontal straight pencil line on the wall, which is your desired installation height.
- Find the centerline of the cooktop. Use a level to draw a vertical straight pencil line on the wall.
  CHECK TO BE SURE THE LINE IS PERFECTLY PERPENDICULAR.

Mounting the duct cover bracket

Option A - Fixed height duct cover

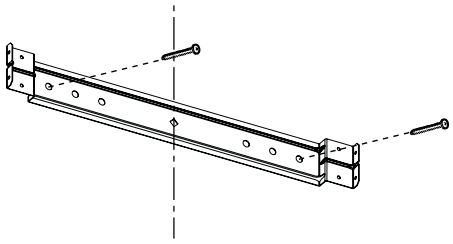
- From the horizontal line traced in the previous section, trace a horizontal parallel line as shown below.
- Center the bracket in the top horizontal line and align it with the centerline, as described in the following drawing.



- Mark screw holes locations in the wall.

IMPORTANT. Check to be sure that holes locations are leveled, and correctly centered by the vertical centerline. (This installation instruction applies for concrete wall).

- Drill 5/16” pilot holes in the marked locations.
- Install wall fastener anchors.
- Drive wood screws, by hand, into the fasteners to allow anchors to expand. Remove screws.
- Secure the bracket to the wall with wood screws and/or fasteners.

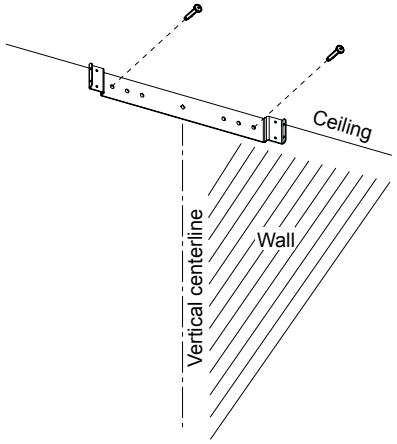


Option B - Telescopic duct cover

- The duct bracket should be installed against the back wall and flush with the ceiling. This bracket will hold the duct cover in place at the top (this a extra accessory available not included with the hood).

Secure the bracket to the wall:

- Align the marked centerline on the bracket with the centerline on the wall.
- Mark 2 screw hole locations in the wall.
- Drill 5/16” pilot holes in the marked locations.
- Install wall fastener anchors.
- Drive wood screws, by hand, into the fastener to allow anchors to expand. Remove the screws.
- Secure the bracket to the wall with wood screws and/or fasteners.



DUCT FITTINGS

Use this chart to compute maximum permissible lengths for ducts runs to outdoors.

NOTE: Do not exceed maximum permissible equivalents lengths!

Flexible ducting:

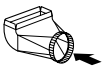
If flexible metal ducting is used, all the equivalent feet values in the table should be doubled. The flexible metal duct should be straight and smooth and extended as much as possible.

DO NOT use flexible plastic ducting.

NOTE: Any home ventilation system, such as a ventilation hood, may interrupt the proper flow of combustion air and exhaust required by fireplaces, gas furnaces, gas water heaters and other naturallly vented systems. To minimize the chance of interruption of such naturally vented systems, follow the heating equipment manufacturer’s guidelines and safety standards such as those published by NFPA and ASHERAE.

This hood must use an 8” round duct.

Duct piece	Dimensions	Equivalent Lenght	Quantity Used	Total Equivalent Lenght
	Round, straight	1 ft. (per foot lenght)		
	3-1/4” x 12”, 3-1/4” x 24” straight	1 ft. (per foot lenght)		
	8” round, 90° elbow	15 ft.		
	8” round, 45° elbow	8 ft.		
	3 - 1/4” x 12”, 90° elbow	11 ft.		
	3 - 1/4” x 12” or 45° elbow	6 ft.		
	3 - 1/4” x 12”, 90° flat elbow	24 ft.		
	8” round to 3-1/4” x 12” or 3-1/4” x 24” transition	1 ft.		

Duct piece	Dimensions	Equivalent Lenght	Quantity Used	Total Equivalent Lenght
	3-1/4” x 12” to 8” round transition	8ft.		
	8” round to 3-1/4” x 12” or transition 90° elbow	16 ft.		
	3-1/4” x 12” to 8” round transition 90° elbow	17 ft.		
	8” round wall cap with damper	30 ft.		
	3-1/4” x 12” wall cap with damper	30 ft.		
	8” round roof cap	26 ft.		
	8” round roof vent	26 ft.		

Ceiling ducting

If the duct will vent straight up to the ceiling:

- Use level to draw a line straight up, from the centerline on the template to the ceiling.
- Measure at least 4 -12/16 ” from the back wall to the circle center of an 8-½” hole on the ceiling.

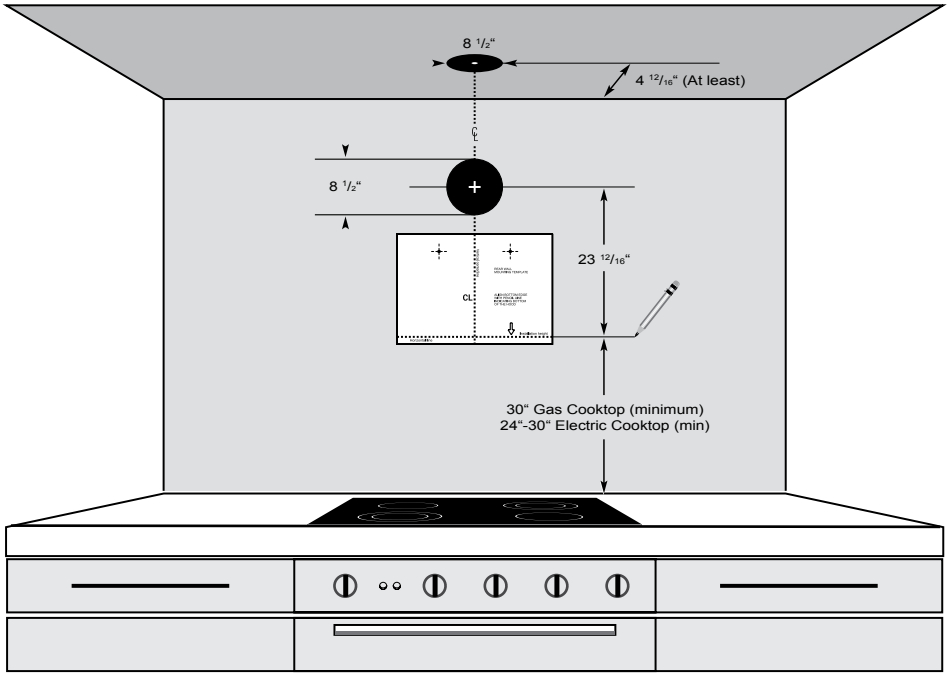
Wall ducting

If ductwork will vent to rear:

- Use a level to draw a line straight up from the centerline on the template.
- Measure at least 23 - 12/16” (the measure might vary dependig on the elbow used) above the pencil line that indicates the bottom installation height, to the circle center of an 8-½” diameter duct hole (Hole may be elongated for duct elbow).

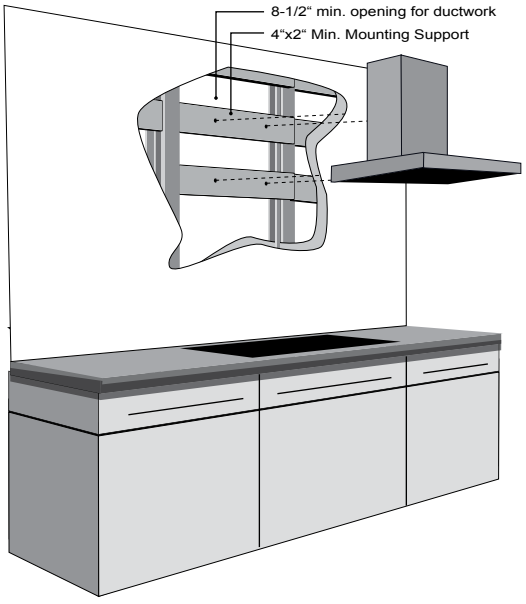
House wiring location

- The junction box is located on the top left side of the hood.
- Wiring should enter the back wall at least 20” above the bottom of the installation height, and within 5-7/8” and 4-7/8”of the left side of the centerline.
- Use for the installation 1/2” trade size UL listed metal conduit.



Install framing for hood support

- If drywall is present, mark the screw hole locations. Remove the template.
- Cut away enough drywall to expose 2 vertical studs at the holes location indicated by the template. Install two horizontal supports at least 4” X 2” between two wall studs at the bottom mounting holes installation location.
- The horizontal support must be flush with the room side of the studs.
  Use cleats behind both sides of the support to secure to wall studs.
- Reinstall drywall and refinish.



IMPORTANT

Framing must be capable of supporting 100 lbs.

WARNING

- When installing to drywall the wall fastener anchors shall not be used. Disregard the installation steps referring to wall fastener anchors in the following instructions.

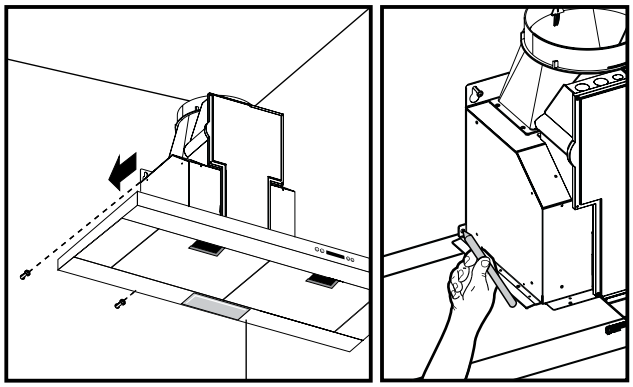
Mounting the hood (This range hood installation instruction applies for concrete wall)

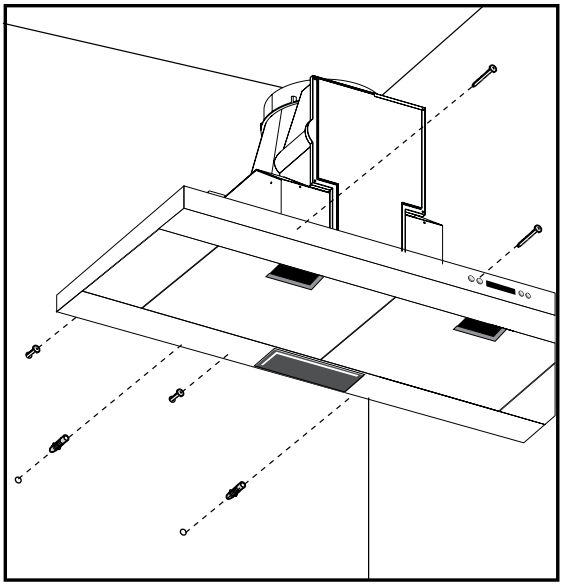
WARNING: 2 people are required to lift and position the hood onto the mounting screws.

- Place the template on the wall along the horizontal line, make sure the template is leveled and centered with the centerline.
- Mark “upper” screw holes locations in the wall.
- Drill 5/16” pilot holes in the marked locations.
- Install wall fastener anchors.

IMPORTANT. Check to be sure that hole locations are leveled and correctly centered by the vertical centerline.

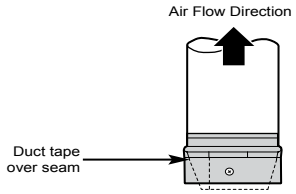
- Drive “upper” wood screws, by hand. Leave ¼ “ of distance between the screw head and the wall.
- Mount the hood onto the “upper” screws.
- Mark “lower” wood screw holes locations in the wall using a pencil.
- Remove the hood.
- Drill 5/16” pilot holes in the marked locations.
- Install wall fastener anchors.
- Drive “lower” wood screws, by hand. Remove screws.
- Mount the hood onto the “upper” screws.
- Drive and tight the “upper” wood screws, by hand.
- Drive and tight the “lower” wood screws, by hand.





Connecting the ductwork

- Install ductwork, making connections in the direction of airflow as illustrated.
- Push duct over the exhaust outlet.
- Wrap all duct joints and the flange connections with duct tape for an airtight seal.
- Make the same connection in the wall or ceiling vent exit.

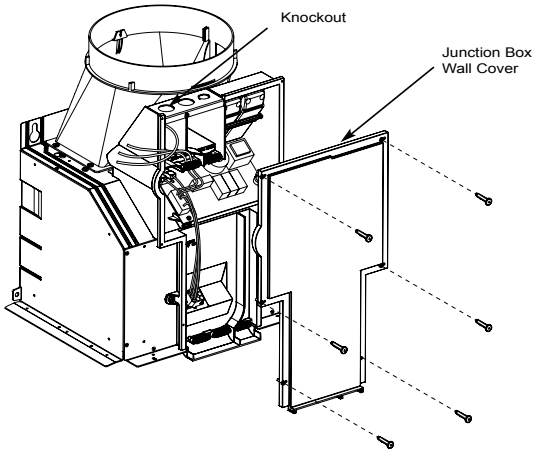


Making the electrical connections

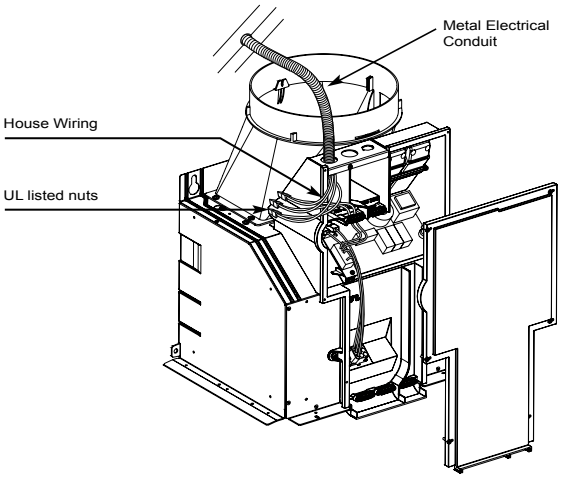
WARNING:
ELECTRICAL SHOCK HAZARD
TURN OFF POWER CIRCUIT AT THE SERVICE PANEL BEFORE WIRING THIS UNIT.
120 V, 15 OR 20 AMP CIRCUIT REQUIRED.
IF HOUSE WIRING IS NOT A 3 WIRE INSTALLATION (NEUTRAL, LINE AND GROUND), A GROUND MUST BE PROVIDED BY THE INSTALLER. WHEN HOUSE WIRING IS ALUMINUM, BE SURE TO USE U.L. APPROVED ANTI-OXIDANT COMPOUND AND ALUMINUM-TO-COPPER CONNECTORS.

ELECTRICAL GROUNDING INSTRUCTIONS
THIS APPLIANCE IS FITTED WITH AN ELECTRICAL JUNCTION BOX WITH THREE WIRES, THE WIRE COLOR GREEN / YELLOW SERVES TO GROUND THE APPLIANCE. TO PROTECT YOU AGAINST ELECTRIC SHOCK, THE GREEN/YELLOW WIRE MUST BE CONNECTED TO THE GROUNDING WIRE IN YOUR HOME ELECTRICAL SYSTEM, AND IT MUST UNDER NO CIRCUMSTANCES BE CUT OR REMOVED. FAILURE TO DO SO CAN RESULT IN DEATH OR ELECTRICAL SHOCK.

- Remove junction box cover and knockout on the top left side.



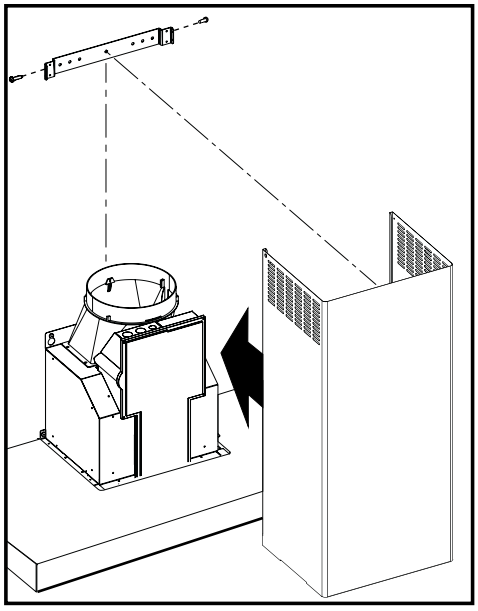
- Secure the metal electrical conduit to the junction box by the UL conduit fitting.



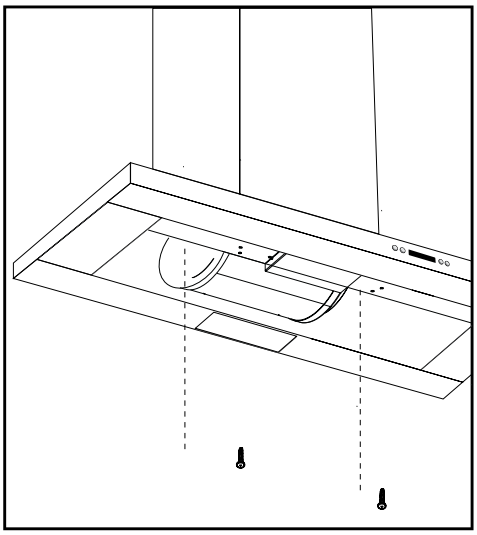
- Electrical connections:
  - To connect the “Neutral”, joint by a wire nut the white wire (from the conduit) to the white wire from the junction box.
  - To connect the “Line”, joint by a wire nut the black wire (from the conduit) to the black wire from the junction box.
  - To connect the “Ground”, joint by a wire nut the Green Yellow wire (from the conduit) to the Green/Yellow wire from the junction box.
- Push wires into junction box.
  IMPORTANT: Be sure wires are not pinched
- Secure junction box cover with original screws.

Mounting the duct cover

- Position the duct cover over the mounted hood.
- Slide the bottom of the duct into the assigned area.
- Position the top of the duct over the duct mounting bracket. If a telescopic duct cover is used, grab the upper part of the telescopic duct cover, pull it and place it in the duct cover mounting bracket.



- Secure the top of the duct with 2 assembly screws provided.
- Secure the bottom of the duct with 2 assembly screws provided.

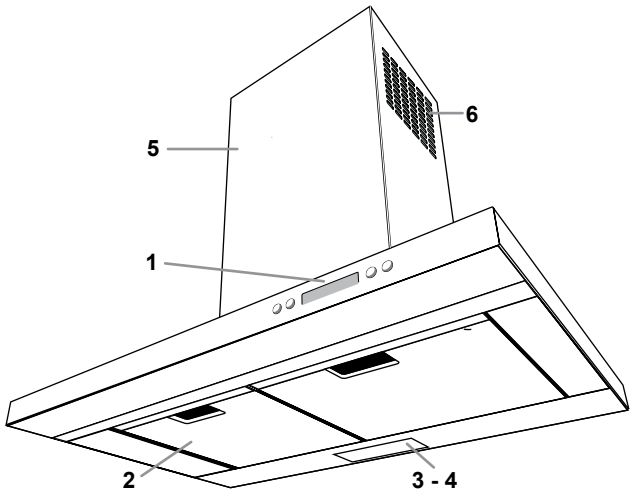


Use & Care Instructions

Before using your hood read this manual carefully. The information on the following pages will help you operate and maintain your hood properly. Keep it handy to answer your questions.

If you receive a damaged hood contact immediately your dealer (builder) that sold you the hood.

To obtain service, see the consumer service pages in the back of this manual. First contact the people who serviced your appliance, explain why you are not pleased. In most cases, this will solve the problem. If are not pleased, refer to the warranty page and write all the details including your phone number.



1. Control Panel
2. Grease Filter
3. Cover Lamp
4. Incandescent Lamp (position and number may vary)
5. Duct Cover
6. Duct Cover hole