**Venting Requirements**

- Vent system must terminate to the outside (roof or side wall).
- DO NOT terminate the vent system in an attic or other enclosed area.
- DO NOT use 4” (10.2 cm) laundry-type wall caps.
- Use metal/aluminum ducting only. Rigid metal/aluminum ducting is recommended.
- Always keep the duct clean to ensure proper airflow.
- Calculate the following figures before installation:
  1. *Distance from the floor to the ceiling.* *(less than 102”).
  2. *Distance between the floor to the countertop/stove.* *(Recommend 28” to about 36”).
  3. *Distance between the countertop/stove to the range hood.* *(Recommended 28” to ~31”).
  4. *Height of range hood body and chimney covers combined.* *(Extension available*)

**For the most efficient & quiet operation:**
- A distance of 28” to 31” is recommended between stove top and the bottom of range hood.
- "28” is the lowest recommended for safe operation; 31” is only recommended for efficient operation, but can be mounted higher."
- It is recommended that the range hood be vented vertically through the roof through 6” (15.24 cm) or larger round metal/aluminum vent work.
- The size of the vent should be uniform.
- Use no more than three 90° elbows.
- For best results, attempt to make a minimum of 24” (61 cm) of straight vent between the elbows if more than one elbow is used.
- DO NOT install two elbows together.
- The length of vent system and number of elbows should be kept to a minimum to provide efficient performance.
- The vent system must have a damper. If roof or wall cap already has a damper, DO NOT use the supplied damper (if applicable).

**Height & Clearance**

![Diagram of venting requirements and height & clearance]

- **Maximum** ceiling clearance 102” at 31” hood mounting height above countertop/stove (may vary with different model). Chimney extensions available for higher ceiling.
- **Standard Upper Chimney Extension available**
- **Standard Lower Chimney Extension available**
- **Min: 28”**
- **Max: ~31”**
- **Max: 102”**
- **36” Base**
- **Countertop/Stove**

* Higher ceiling requires chimney extension. Available at your local resellers.

- Use duct tape or equivalent to seal all joints in the vent system.
- Use caulking to seal exterior wall or roof opening around the cap.

* Due to different ceiling height configurations, recommended height may not be applicable.
### Height & Clearance

**IMPORTANT:**
- A minimum of 6” round (standard for this range hood) or 3 ¼” x 10” rectangular duct (purchased separately) must be used to maintain maximum airflow efficiency.
- A flexible 6” round duct is provided for convenience and for use in difficult installations, however always attempt to use a smooth metal/aluminum rigid type of ducting to maximize airflow efficiency.
- ALWAYS, when possible, reduce the number of transitions and turns. If long duct run is required, increase duct size to 7” or 8”. If a reducer is used, install a long reducer instead of a pancake reducer. Any reductions of duct size will restrict and decrease airflow; to maximize airflow flow efficiency place any reducers furthest away from any bends or transitions.
- If turns or transitions are required, install them as evenly distanced as possible, and as far away from the range hood as possible.
- Please use Duct Run Calculation below to compute the total available duct run when using elbows, transitions and caps.
- It is important to install the hood at the proper mounting height. Hoods mounted too low is considered unsafe and could result in heat damage and fire hazard; while hoods mounted too high are harder to reach and will loose general effectiveness.
- Minimum mount height between stove top to hood bottom should be no less than 28”. Any less is considered unsafe and not recommended.
- Maximum mount height between stove top to hood bottom can be higher than 31 inch*, but is recommended to be the best efficiency. (Extension available*)
- If available, also refer to stove top manufacturer's height clearance requirements and recommended hood mounting height above range.

*Due to different ceiling height configurations, recommended height may not be applicable.

**Minimum Duct Size:**
- Round - 6” minimum
- Rectangular - 3 ¼” x 10” minimum (requires a 6” to 3 ¼” x 10” adaptor, not supplied)

### Duct Size Upgrade Calculator

Minimum duct size recommended is 6” round (or 3 ¼” x 10” rectangular). Maximum duct length recommend is 50 ft. Any duct length over 50 ft is recommended to use a larger diameter duct size.

Survey the installation application and record the estimated length of ducting required or used for that application. Record the number of bends, angle of bends, and/or any transitional pieces used. Each bend or transition will reduce air flow and reduce the recommended duct length.

<table>
<thead>
<tr>
<th>Duct Deductions:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Each 90° bend</td>
<td>9 ft</td>
</tr>
<tr>
<td>Each 45° bend</td>
<td>5 ft</td>
</tr>
<tr>
<td>Each 6” to 3 ¼” x 10” transition</td>
<td>7 ft</td>
</tr>
<tr>
<td>Side wall cap with damper</td>
<td>1 ft</td>
</tr>
<tr>
<td>Roof Cap (with factory Damper)</td>
<td>1 ft</td>
</tr>
</tbody>
</table>

**Duct Deduction Calculation Example:**
(1) 90° bend, (1) 3¼” x 10” transition, (2) 45° bends, (1) sidewall cap with damper (with factory damper not installed)

-9ft + -7ft + -5ft + -5ft + -1ft = -27ft

Deduct 27 ft from 50 ft, giving you 23 ft of available straight ducting before it is recommended to upgrade your ducting size.
• This range hood is factory set for venting through the roof or wall.
• Vent work can terminate either through the roof or wall. To vent through a wall, a 90° elbow is needed.

**IMPORTANT:**
• 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/aluminum duct work only.
• Fasten all connections with sheet metal screws and tape all joints with certified duct tape or equivalent.
• Use caulking to seal exterior wall or roof opening around the cap.

**Option 1: Vertical roof venting**

**Option 2: Horizontal wall venting**

Charcoal Filter Installation

NOTE: Remove aluminum filters on hood.
1. Position the charcoal filters onto the side of the motor, aligning the mounting points, turn until it locks. Re-install aluminum filters.
2. Charcoal filters must be replaced after 120 hours of use (or approximately every 2 to 3 months based on the average of 1 to 2 hours of daily cooking time). Available at your local resellers.

Electrical Requirements

IMPORTANT: Observe all governing ordinances and local codes. (Please consult with a qualified electrician for any electrical wiring)

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.

• Provide a circuit protected power service; preferably a Ground Fault Circuit Interrupter ("G.F.C.I."): 120-volt, 60 Hz, AC, with at least 5-amps of available service.

• Enlist a qualified electrician to ensure the range hood and electrical lines are adequately grounded and properly protected. NEVER electrically ground to a gas pipe.

IMPORTANT: Save this Installation Guide for future reference and/or electrical inspector use.

The range hood should be connected with a circuit breaker protected power service.

Wire sizes (copper wire only) and connections must conform with the rating of the appliance as specified on the model/serial rating label. 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 cable (at the range hood and at the junction box).

Copies of the standards listed may be obtained from:
* National Fire Protection Association
  Battery March Park
  Quincy, Massachusetts 02269

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

Advanced Preparations:
1. Be familiar with the controls of the range hood by reading through Range Hood Operations, Page 12.
2. Place the range hood on a flat, stable surface. Connect the range hood to a designated standard outlet (please refer to the product label for the suitable voltage of this unit) and turn on the range hood. Verify all operations of the range hood by referring to Range Hood Operations, Page 12.
3. Place all supplied parts and required hardware on a flat, stable surface and verify the existence of all supplied parts listed on Page 4.
4. Carefully remove the white plastic protective coat from the chimney covers and range hood.

Preparations:

NOTE: To avoid damage to your hood, prevent debris from entering the vent opening.
1. Determine and mark the center line on the ceiling where the range hood will be installed. Make sure there is proper clearance within the ceiling or wall for exhaust vent.
2. Due to the weight and size of this unit, please make sure that the support system or framework being used is stable and secure in the wall or ceiling.
3. Put a thick, protective covering over counter top, cook top or range to protect from damage or dirt. Remove any hazardous objects around the area when installing.
4. Mark the locations of the support mounting bracket holes, ducting cutout (if used) and power supply cable cutout on the ceiling. Use drill and saber saw or keyhole saw to cut openings for power supply cable and ducting (see Venting requirements and Electrical requirements, Pages 5-8).
5. If venting to the outside install vent system (see Venting Methods, Page 7). Use caulking to seal exterior wall or roof openings.
6. Disconnect main electrical supply, prepare and run electrical wiring through ceiling or wall. Leave approximately 12” of electrical cord hanging from the ceiling. DO NOT restore power until installation is completed.
7. Disconnect power cord, remove the aluminum filter by pressing on the latch toward the direction of solid arrow while holding the metal handle, gently pull the aluminum filter toward the direction of dashed arrow as shown in Figure 1.
8. Remove the grease cup by sliding it sideward, see Figure 2 for location of the grease cup.
9. Set aside the aluminum filters and grease cup until the range hood is properly installed.
10. If the range hood comes with a glass canopy and has not already been mounted to the hood, loosen the four canopy screws and washers from the hood top, carefully place the canopy on the hood top, and loosely tighten the four canopy screws along with washers. DO NOT put excessive pressure against the glass.

WARNING

Excessive Weight
Require three or more persons to move and install this range hood. Spinal or other bodily injuries could occur if it is not followed.

Severe Injury
Rotating fan can cause severe injury. Stay clear of fan when power is present.
**Installation Overview**

```
<table>
<thead>
<tr>
<th>Part</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper support frame</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Support frame extensions</td>
<td>32 PCS</td>
</tr>
<tr>
<td>Lower support frame</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Motor housing</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Electric circuit box</td>
<td>32 PCS</td>
</tr>
<tr>
<td>6&quot; Round duct (exhaust)</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Duct work and electric wiring region</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Glass Canopy Screw</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Hex Key</td>
<td>1 PCS</td>
</tr>
<tr>
<td>Glass Canopy Screw (Optional with glass canopy)</td>
<td>4 PCS</td>
</tr>
<tr>
<td>Hex Key (Optional with glass canopy)</td>
<td>4 PCS</td>
</tr>
</tbody>
</table>
```

**NOTE:**
- Lag bolts designed to be affixed into structural support. Pre-drill holes as to not split structural pieces.
- A distance of 28” to 31” is recommended between stove top and the bottom of range hood.
- Always use first and second holes on the support frame extensions to secure lower support frame.

*Due to different ceiling height configurations, recommended height may not be applicable.*

**Installation**

1. Measure and mark the location of where you want your chimney installed, and then align the upper support frame within those marks. Make additional marks at the locations of the mounting bolt holes. Ensure there is enough clearance for the range hood body to attach to the support frame without colliding into any other objects.
2. Predrill the bolt hole locations, so the bolts do not split apart or weaken any supporting frames or joist.

**WARNING**

*Hazard of electrical shock!*
Do not perform service on an electrically live system. Disconnect the main electrical supply before servicing this device. Touching electrical connectors or other exposed electrical circuitry inside this range hood when they are energized could result in death, serious bodily injury, or property damage.
Installation (Continued)

3. Align the upper support frame with the predrilled holes in ceiling. Mount the upper support frame to the ceiling using (4) four “A” bolts (or fasteners that meet or exceed the factory hardware). Ensure the upper support frame is securely fastened to the joist or support in the ceiling. Attach the upper support frame to ceiling using fasteners or anchors recommended for your type of ceiling:
   • Sheet rock or Wood ceilings: Attach support frame to ceiling structural joists or stud blockings if possible. If ceiling joists or stud blockings are not available, it is required to build a supporting structure behind the sheet rock for the best support.
   • Concrete ceiling: Use designated concrete screws and/or anchors (not provided) that meet or exceed the factory hardware specifications.

4. Position the support frame extensions at the inside corners of the support frames, adjust and mark each support frame extension as necessary to achieve the proper height for the range hood to be set away from the cook top. (See Height and Clearance on Page 5 and Installation Overview on previous page).

5.  
   a) Fasten the support frame extensions onto the lower support frame using “B” screws and “C” nuts as shown in Figure 3. Each end of support frame extension should be installed with at least (2) two “B” and “C” fasteners. Repeat this step for all the support frame extensions.
   b) If your specific model does not have a lower support frame, the support frame extensions fasten directly to the range hood body, using the same “B” and “C” fasteners. IMPORTANT: Always use both the first and second holes on the support frame extensions. IMPORTANT: Remove the filters from the range hood, so they do not get damaged during installation.

6. Install the flexible duct tube onto the household ducting at the top of the chimney; extend the ducting down and ensure there is approximately 6” of ducting to install onto the vent ducting.

7.  
   a) Position the lower support frame with support frame extensions to the upper support frame, and then fasten each extension with “B” screws and “C” nuts as shown in Figure 3. Each end of support frame extension should be installed with at least (2) two “B” and “C” fasteners.
   b) If your specific model does not have a lower support frame, before attaching the support frame extensions (with range hood body) to the upper support frame, first place the upper and lower chimney covers over the support frame extensions (and range hood body), and the position the whole assembly to align with the upper support frame, and then attached the flexible air ducting onto the range hood ducting, and then affix the assembly onto the upper support frame using the “B” and “C” fasteners.
Installation (Continued)

8.  a) Slide the upper chimney cover over the completed support frame and fasten with two “F” bolts to the upper support frame. (See Figure 4 for illustrations).
   b) If your model does not have a lower support frame, before attaching the upper chimney cover onto the upper support frame, plug in the power cable for the range hood.
9. Slide the lower chimney cover around the lower support frame and around the upper chimney cover. Have second person to hold it in position. (See Figure 4). Note: If your specific model does not have a lower support frame, this step has already been completed in step (8).
10. Have a third person raise up and hold the island range hood in position, connect power plug to the power outlet, and connect the duct work to the range hood. Note: If your specific model does not have a lower support frame, this step has already been completed in step (8).
11. Mount the hood to the lower support frame using “D” bolts and “E” nuts: Securely fasten two “E” nuts to two “D” bolts by reaching up from the underside of the hood. Repeat this step to secure the other side using two “E” nuts to two “D” bolts. Note: If your specific model does not have a lower support frame, this step has already been completed in step (6).
12. After all four “D” bolts and four “E” nuts securely fastened, connect the lower end of the duct tube to the hood and slide the lower chimney cover down carefully so that it sits on top of the hood. Note: If your specific model does not have a lower support frame, this step has already been completed in step (8).
13. Install grease cup and aluminum filters then check the operation of the range hood.
Range Hood Operations

Control Panel, Display and Functions:

This range hood is designed to remove smoke, cooking vapors and odors from the cook top area. For best results, start the range hood before cooking and allow it to operate several minutes after the cooking is completed to clear all smoke and odors from the kitchen.

<table>
<thead>
<tr>
<th>Button and Graphic Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Button</strong></td>
</tr>
<tr>
<td>[Press] Power ON/OFF the range hood</td>
</tr>
<tr>
<td>[Hold] Activate the Delayed-Vent-Off feature</td>
</tr>
<tr>
<td><strong>Decrease Button</strong></td>
</tr>
<tr>
<td>[Press] Decrease vent (motor) speed</td>
</tr>
<tr>
<td>[Alternate] Decrease timer value</td>
</tr>
<tr>
<td>[Hold] Enter timer mode</td>
</tr>
<tr>
<td><strong>Increase Button</strong></td>
</tr>
<tr>
<td>[Press] Increase vent (motor) speed</td>
</tr>
<tr>
<td>[Alternate] Increase timer value</td>
</tr>
<tr>
<td>[Hold] Timer reset (cumulative)</td>
</tr>
<tr>
<td><strong>Light Button</strong></td>
</tr>
<tr>
<td>[Press] Powers ON/OFF light function</td>
</tr>
<tr>
<td>[Hold] Cycles through Dimmer function</td>
</tr>
<tr>
<td><strong>Vent Elapse Timer</strong></td>
</tr>
<tr>
<td>Displays the accumulated time the hood is running</td>
</tr>
<tr>
<td><strong>Delayed Power-Off Timer</strong></td>
</tr>
<tr>
<td>Displays the length of time left for the delay off function</td>
</tr>
<tr>
<td><strong>Delayed Power-Off Indicator</strong></td>
</tr>
<tr>
<td>Illuminates when delayed-auto-shutoff feature is on</td>
</tr>
<tr>
<td><strong>Vent Function Indicator</strong></td>
</tr>
<tr>
<td>Illuminates when the vent (motor) function is on</td>
</tr>
<tr>
<td><strong>Vent Speed Indicator</strong></td>
</tr>
<tr>
<td>Illuminates when the vent (motor) function is on and displays the speed setting</td>
</tr>
<tr>
<td><strong>Light Function Indicator</strong></td>
</tr>
<tr>
<td>Illuminates when the light feature is on</td>
</tr>
</tbody>
</table>
Range Hood Operations (Continued)

Controls:

Automatic cleaning reminder:
• This range hood is equipped with a cleaning reminder that will activate following 30 hours of use. When the hood (motor) starts, cumulative running time will be shown in Vent Elapse Timer. This timer icon flashes when 30 hours is up and reminds user to clean the aluminum filter.
• After cleaning the filter and when the hood is not in use, press and hold the Increase button over 3 seconds to reset the Vent Elapse Timer. Please note that turning off the system will not reset the timer.

Adjusting the hood (motor) speed:
• Press the Power button once to turn on the system. The Vent Function Indicator icon flashes showing that the suction is ready. Decrease button will decrease the speed of the vent from 6 to 1 (strongest to quietest). Increase button will increase the speed of the vent from 1 to 6 (quietest to strongest).
• Press the Power button once to turn off the system.

Note: The system saves user configurations, settings such as light, timer and blower (motor) speed will remain the same the next time it is turned on.

Adjusting the timer function:
• While the vent (motor) is not running, press and hold the Decrease button over 3 seconds to enter timer mode. Adjust to desired period of delay off timer by pressing Increase or Decrease button (minimum 1 minute to maximum 15 minutes). This setting will be saved immediately.

Activating the timer function:
• While the vent (motor) is running, press and hold the Power button for over 3 seconds to activate Delayed Power-Off Timer. Delayed Power-Off Indicator will illuminate and Delayed Power-Off Timer will begin to countdown, when it reaches zero, the vent will shut down.

Adjusting the light:
• Press the Light button once to turn on the lights, and once again to turn off the lights.
• While the lights are off, press and hold the Light button for over 3 seconds to dim the lights from low to high. Level of brightness will be stored in system’s memory.

CAUTION: DO NOT touch the lights until switched OFF and cooled.

Note: Light settings are independent from other settings (including power-off delay) and lights has to be manually turned on or off.

Note: The system saves user configurations, settings such as light, timer and vent (motor) speed will remain the same the next time it is turned on.