

Electrical Requirements

IMPORTANT: Observe all governing codes and ordinances.

(Please consult with a qualified electrician for 220-Volt 50 Hz voltage)

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 120-Volt, 60 Hz, AC-only, fused electrical supply is required on a separate 15-amp circuit, fused on both sides of the line.

DO NOT ground to a gas pipe.

Check with a qualified electrician if you are not sure that the range hood is properly grounded.

DO NOT have a fuse in the neutral or ground circuit.

IMPORTANT: Save this Installation Guide for electrical inspector's use.

The range hood must be connected with copper wire/plug only.

The range hood should be connected directly to the fused disconnect (or circuit breaker) box through flexible armored or non-metallic sheathed copper cable. A U.L. - or C.S.A. - listed strain relief must be provided at each end of the power supply cable.

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
Batterymarch Park
Quincy, Massachusetts 02269

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

Preparation



Advanced Preparations:

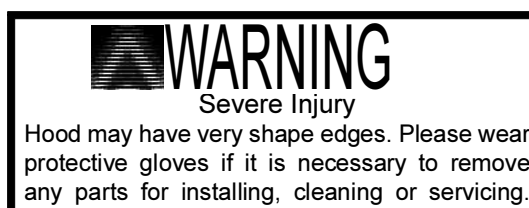
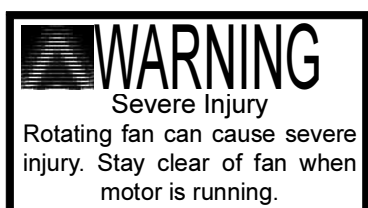
- Be familiar with the controls of the range hood by reading through ***Range Hood Operations***, Page 12.
- Place the range hood on a flat, stable surface. Connect the range hood to a designated standard outlet (please refer the product label for the suitable voltage of this unit) and turn on the range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

Preparations:

NOTE: To avoid damage to your hood, prevent debris from entering the vent opening.

- 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.
- 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.
- 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.
- Mark the locations of the support mounting bracket holes, vent 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 vent (see ***Venting requirements*** and ***Electrical requirements***, Pages 6-8).
- If venting to the outside install vent system (see ***Venting Requirements***, Page 5). Use caulking to seal exterior wall or roof openings.
- 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 wiring is completed.
- Disconnect power cord, remove the baffle filter by sliding the knob toward the metal filter handle.
- Set aside the baffle filters until the range hood is properly installed.

CAUTION: If moving the cooking range is necessary to install the hood, turn OFF the power on an electric range at the main electrical box. SHUT OFF THE GAS BEFORE MOVING A GAS RANGE.



Installation

Installations (refer to Page 4 for parts):

Measure the distance between stove top and the bottom of range hood. A distance of 27" to 30" is recommended*.

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

1. Using references in *Height & Clearance* on Page 5 and *Measurements and Diagrams* on Page 16, mark the leveling point of the hood. Position two mounting screws on the wall, leaving 1/8" space away from the wall.
2. Position the chimney-mounting bracket **directly** above the hood-mounting bracket, mark the leveling points and secure it using two mounting screws.

NOTE: Use threaded drywall anchors only when mounting the hood on sheet rock. Mounting the hood on wall studs or lumbers is highly recommended.

3. Attach the hood-mounting bracket to the back of the hood with six screws as shown in Figure 3.
4. Align hood-mounting bracket to the screws on the wall and hook hood into place as shown in Figure 4 and Figure 5. Tighten screws to secure hood to the wall.

CAUTION: Make certain the range hood is secure before releasing!

5. For safety purpose, pre-drilled mounting holes are provided through the back of the hood. For a more secure installation, use as many mounting holes as needed to secure from the inside of hood.
6. Use 6" round steel pipe (follow building codes in your area) to connect the exhaust on the hood to the duct-work above. Use silver tape or duct tape to make all joints secure and air tight. Refer to Figure 7.

SAFETY WARNING: Risk of electrical shock. this range hood must be properly grounded. Make sure this is done by qualified 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.

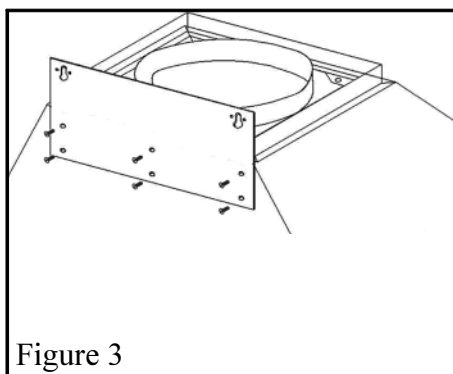
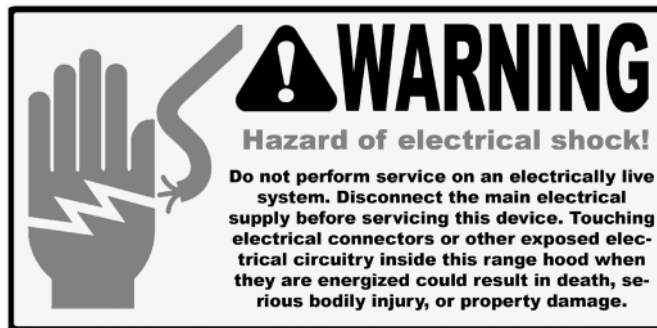


Figure 3

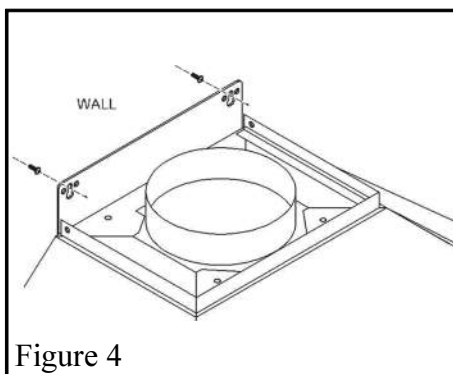


Figure 4

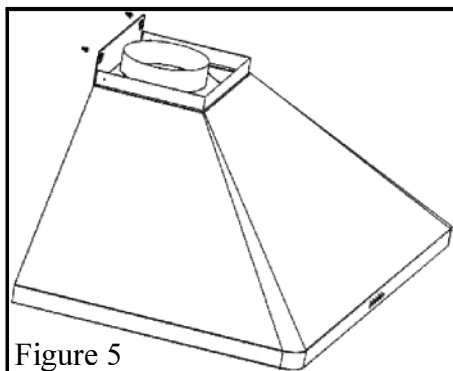


Figure 5

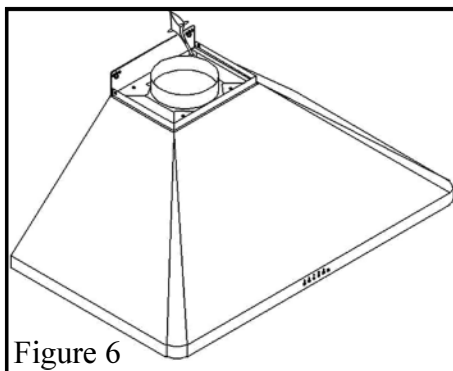


Figure 6

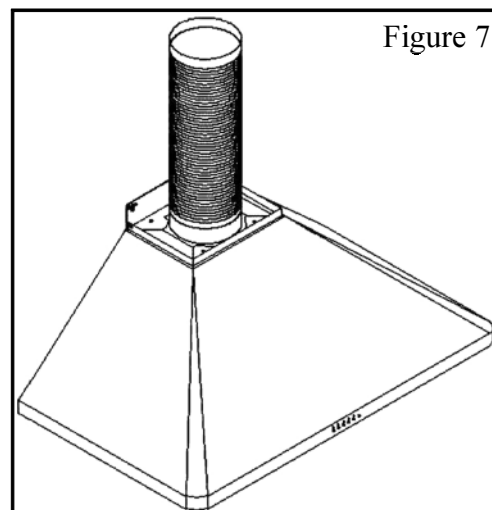


Figure 7

Installation (Continued)

7. Connect the range hood to a designated standard outlet (please refer the product label for the suitable voltage of this unit) or cut off the plug and connect three wires (black, white and green) to house wires and cap with wire connectors. Connect according to colors (i.e. black to black, white to white, and green to green) as shown in Figure 6.
8. Store excess wires in the wiring box.
9. Install both chimneys and tighten screws to secure the lower chimney to the range hood as shown in Figure 8.
10. To avoid scratching the chimney, extend the upper chimney **slowly** and **carefully** to the chimney-mounting bracket and tighten screws as shown in Figure 9.
11. To install baffle filters, refer to Figure 10 for the following three steps:
 - ① Angle baffle filter toward back of hood.
 - ② Slide the knob toward the metal filter handle and push up.
 - ③ Release the knob until it fits into resting positions.
12. Repeat Step 12 to install all baffle filters.
13. Turn power ON in control panel. Check all lights and fan operations.
14. Make sure to leave this Installation Guide for the homeowner.

Figure 8

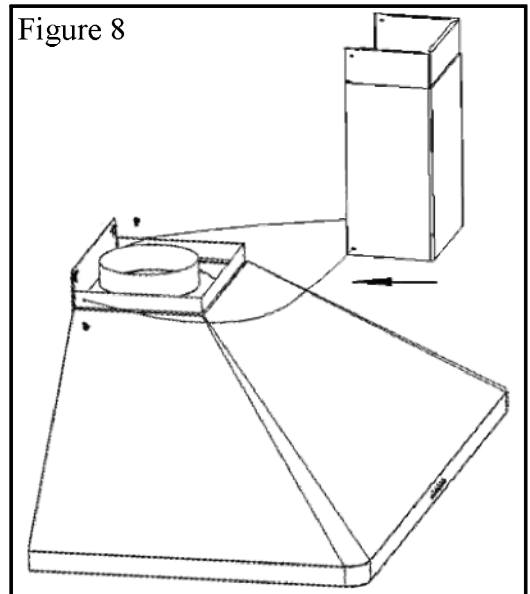


Figure 9

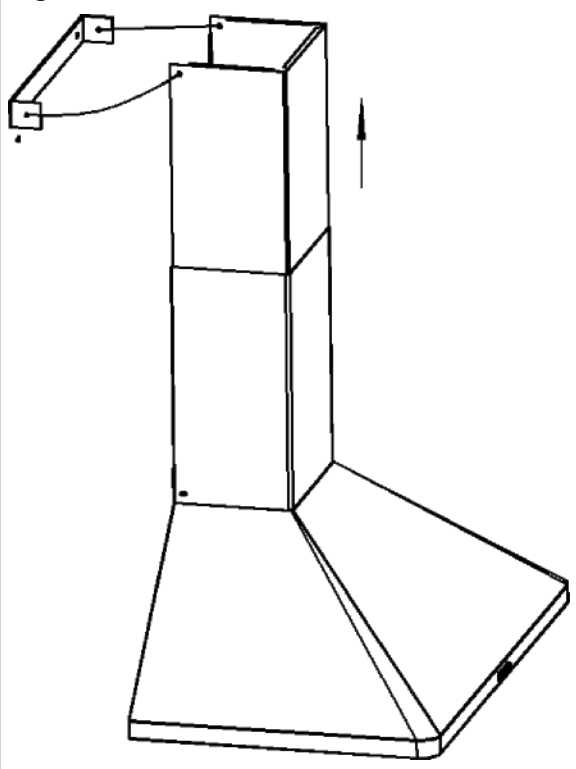
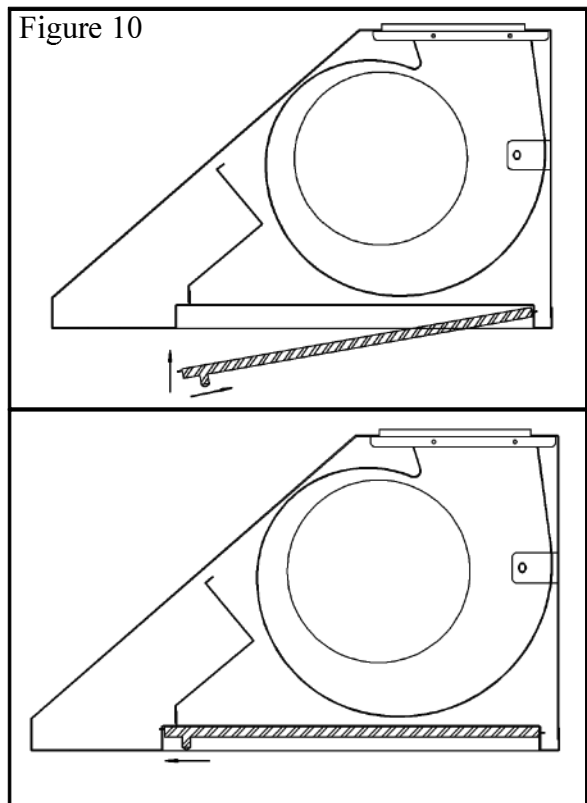
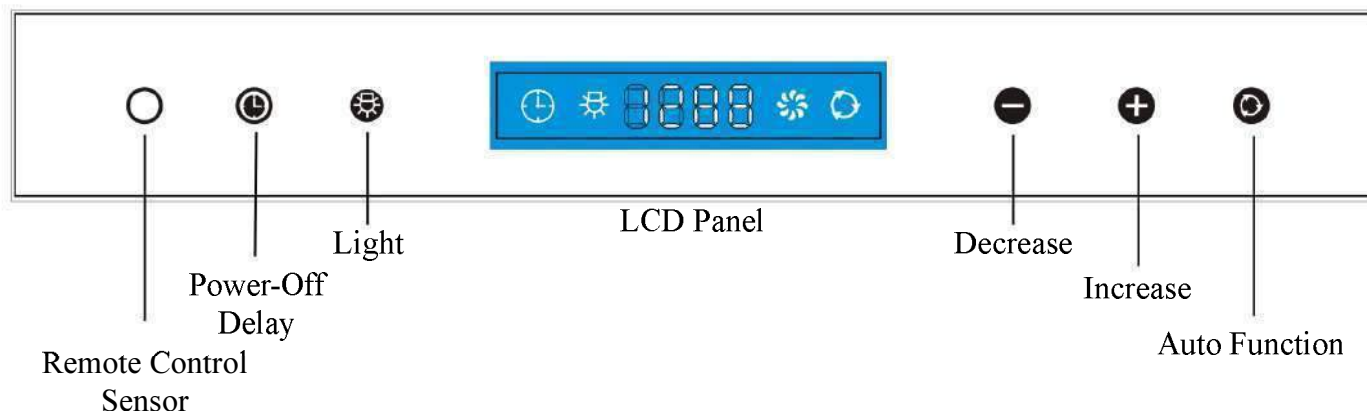


Figure 10



Range Hood Operations

Control Panel Layout and Buttons Configurations:



This range hood is equipped with remote control and heat sensor that will self-calibrate within 5 seconds when the range hood is first electrically activated. Self-calibration will be set when the range hood beeps. LCD panel will turn off automatically after a period of inactivity.

Adjusting Heat Sensor Auto Function Temperature:

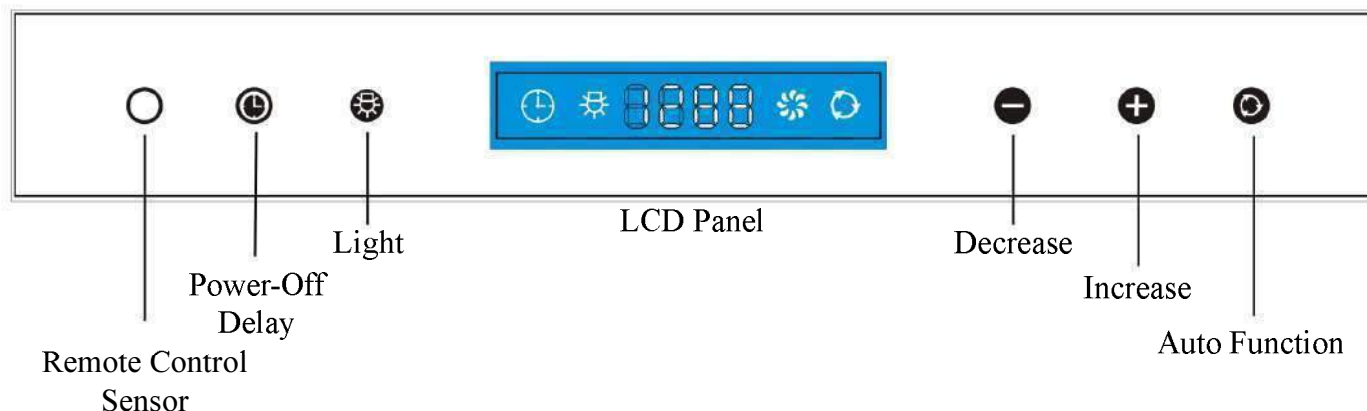
- Press *Auto Function* button to enter the heat sensor auto function temperature setting mode. User defined temperature and “Auto Function” icon will appear and flash in LCD panel. Press *Increase* or *Decrease* button to adjust to desired temperature from 34C to 48C. Press *Auto Function* button again to exit the heat sensor auto function temperature setting mode.
- While the blower (motor) is running, the heat sensor evaluates surrounding temperature and increase the blower to the top speed automatically when reached the user defined temperature. The blower speed decreases by 1 level in every 20 seconds when the surrounding temperature is below the user defined temperature and back to the original speed level.

Activating Normal Blower Function:

- While the range hood is off, press *Increase* or *Decrease* button to start the blower. Press *Increase* button to increase blower speed (F1 to F4) as indicated in LCD panel. The *Increase* button cycles blower settings from off (00), quiet speed (F1), low speed (F2), medium speed (F3) to high speed (F4).
- While the range hood is on and the blower is running, press *Decrease* button to decrease blower speed (F4 to F1) as indicated in LCD panel. The *Decrease* button cycle blower settings from high speed (F4), to medium speed (F3), low speed (F2), quiet speed (F1) to off (00).

Range Hood Operations (Continued)

Control Panel Layout and Buttons Configurations:



Activating Light Function:

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

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

Activating Power-Off Delay Function:

- While the range hood is on and the blower is running in normal mode, press *Power-Off Delay* button to activate delay off timer. Adjust to desired period of delay off timer by pressing *Increase* or *Decrease* button (minimum 1 minute to maximum 15 minutes). Timer beings to countdown immediately, when it reaches 0, the blower will shut off.

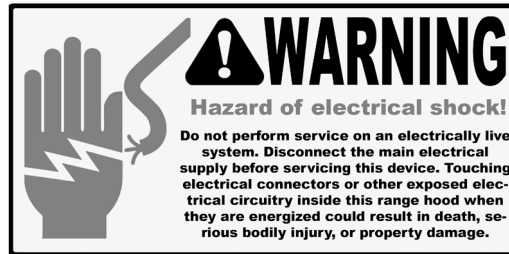
Remote Control Sensor:

- Remote control sensor receives infrared (IR) signal from the remote control. The maximum distance for IR data transmission is 3 meter and requires direct line of sight. The transmission distance may vary depending on temperature and remote control battery condition.

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

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.

Troubleshooting



1. If the range hood or halogen light does not operate after installation:
 - Check if the range hood has been plugged in, make sure that all power has been turned back ON, fused not blown and all electrical wiring are properly connected.
 - Swap out light assembly to working ones to determine whether it is caused by defective bulbs. See *Replacing the light bulbs* on Page 22.
2. The range hood vibrates when the blower is on:
 - The range hood might not have been secured properly on to the ceiling or wall.
3. The blower or fan seems weak:
 - Check that the duct sized used is at least 6" or 3-1/4 x 10". Range hood WILL NOT function efficiently with insufficient duct size. For example: 7" duct over 6" hole and loosely secured.
 - Check if duct is clogged or if damper unit (half-circular flapper) is not installed correctly or opening properly. A tight mesh on a side wall cap unit might also cause restriction to the air flow.
4. The lights work but the blower is not spinning at all, is stuck or is rattling.
 - The blower might be jammed or scraping the bottom due to shipping damage. Please contact us immediately.
5. The hood is not venting out properly:
 - Make sure the distance between the stove top and the bottom of the hood is within* 27" and 30" in distance. **Due to different ceiling height configurations, recommended height may not be applicable.*
 - Reduce the number of elbows and length of duct work. Check if all joints are properly connected, sealed, and taped.
 - Make sure the power is on high speed for heavy cooking.

NOTE: For all other inquiries, please contact your local reseller.

Use and Care Information

Operations:

- Read and understand all instructions and warnings in this manual before operating the appliance. Save these instructions for future reference.
- Always leave safety grills and filters in place. Without these components, operating blowers could catch on to hair, fingers and loose clothing.
- NEVER dispose cigarette ashes, ignitable substances, or any foreign objects into blowers.
- NEVER leave cooking unattended. When frying, oil in the pan can easily overheat and catch fire. The risk of self combustion is higher when the oil has been used several times.
- NEVER cook on “open” flames under the range hood. Check deep-fryers during use: Superheated oil may be flammable.

Cleaning:

- The saturation of greasy residue in the blower and filters may cause increased inflammability. Keep unit clean and free of grease and residue build-up at all times to prevent possible fires.
- Filters must be cleaned periodically and free from accumulation of cooking residue (see *cleaning instructions* on Page 22). Old and worn filters must be replaced immediately.
- DO NOT operate blowers when filters are removed. Never disassemble parts to clean without proper instructions. Disassembly is recommended to be performed by qualified personnel only. Read and understand all instructions and warnings in this manual before proceeding.

Specifications

Specifications ³ :	
Body Design	Seamless Stainless Steel, Satin Finish / Glossy Piano Black Finish
Power Rating	220V/50Hz or 120V/60Hz (USA & Canada standard)
General Input Power	288 W (218W + 2x35W)
Motor Input Power	218 W
Ampere	2.5 A
Levels Of Speed Control	4 Levels
Airflow ¹ (Q/L/M/H)	280CFM / 460CFM / 670CFM / 900CFM
Noise Level ² (Q/L/M/H)	1.2Sone(43dB) / 2.8Sone(55dB) / 5.0Sone(63dB) / 7.0Sone(68dB)
Number Of Motors	Single Motor
Motor Type	Single Chamber Ultra Quiet
Fan Type	Centrifugal Squirrel Cage
Control Type	Touch Sensitive Electronic Control Panel w/ Heat Sensor & Remote
Filtration Type	Stainless Steel Baffle Filter
Illumination	35W Maximum, Dimmable
Venting Size	Top, 6 inches Round
Interference Protection	Radio Frequency Interference Protected

1. In House Test Static Pressure “0”.

2. One sone is roughly equivalent to the sound of a refrigerator (1kHz) at 40 decibels.

3. Subject to change without notice, please contact your local reseller for details.