Electrical Requirements and Installation Requirements

Power Requirements

IMPORTANT:

Please review all local area installation codes.

The customer is responsible for: Contacting a certified installer, checking that the electrical installation is adequate and is in accordance with the National Electrical Code, ANSI / NFPA 70 (or latest edition *) or CSA Standards C22.1-94, Canadian Electrical Code, Part 1 and C22.2 No.0-M91 (the latest edition **) of the CSA, and all codes and ordinances in your area.

Per local codes, use a wire to separate the ground, it is recommended to check the path of the wire by an electrician. Consult a qualified person if you are not sure whether hood is properly grounded or not. Do not install a fuse in the neutral circuit or circuit ground.

Location of the electrical installation:

The cable must enter the rear wall at least 20 to 1/4 "above the height of the installation base, and between 7-5/8" and 4-7/8" from the left side of the mid-line.

IMPORTANT

Keep these instructions to provide to the electrical inspector. The hood must be plugged directly into a 110-volt wall outlet.

Before installing the range hood

1. To ensure the most efficient ventilation performance, install the pipe in a straight line or with fewer elbows.

CAUTION: The output of the vent pipe should be routed to outside.

2. Two people are recommended for installation.

3. Holding plate (mounting plate) can secure the hood to most walls and ceilings. Please consult to a qualified installer to ensure that the plate provided is suitable for your type of wall or cabinet. It’s recommended that holding plate (mounting plate) needs to be anchored to studs – Dry wall alone is not strong enough to support range hood’s weight. The center of a stud provides the best support for the range hood.

4. In the case of an area with COLD WEATHER, install and check against extra-circulation to minimize the cold air return and a nonmetallic thermal break to minimize conduction of outside temperature in the duct. The valve must be placed on the side of the cold air from the heat insulator. The insulation must be placed as closed as possible to where the pipe enters the heated part of the house.

5. Air booster: For current design, air booster is not available to be connected to current range hood.

6. During the removal of the package:

CAUTION: Remove the cardboard carefully, please wear gloves to prevent getting hurt from sharp edges.

7. Your Thor Kitchen Range Hood needs strict requirement on Size of Venting Duct and the Clearance between countertop to Range hood. Please read the two chapters below carefully. Thor won’t be responsible for any issues related to incorrect installation.

Size for Venting Duct

Follow the guidelines presented in this manual.
Ventilation methods:

You might be having a 67/8 inches (in certain models or 75/8 inches) duct size for your Thor Kitchen Range Hood. Recommended duct size for your range hood will be:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Duct Size</th>
<th>Recommended Size for Duct Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td>01, 02, 04, 06, 06-BS series</td>
<td>67/8 inches</td>
<td>7”-8”</td>
</tr>
<tr>
<td>05 series</td>
<td>75/8 inches</td>
<td>8”-9”</td>
</tr>
</tbody>
</table>

***Any Reduction of duct pipe size will affect the performance of the range hood and cause potential noise issue.

More information for maximum Duct Length:

For satisfactory air movement, the total duct length should not exceed 100 equivalent feet.

<table>
<thead>
<tr>
<th>Duct Pieces</th>
<th>Description</th>
<th>Equivalent Number (Ft.)</th>
<th>Duct Pieces</th>
<th>Description</th>
<th>Equivalent Number (Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7” Round</td>
<td>straight</td>
<td>1</td>
<td>6-8” Round</td>
<td>wall cap with damper</td>
<td>30</td>
</tr>
<tr>
<td>8” Round</td>
<td>straight</td>
<td>1</td>
<td>6”-8” Round</td>
<td>roof cap</td>
<td>30</td>
</tr>
<tr>
<td>6” Round</td>
<td>90° elbow</td>
<td>15</td>
<td>7” or 8” Round, 90° elbow</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>6” Round</td>
<td>45° elbow</td>
<td>9</td>
<td>7” or 8” Round, 45° elbow</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>7” or 8” Round roof cap</td>
<td>30</td>
<td></td>
<td>7” or 8” Round Wall cap with damper</td>
<td>30</td>
<td></td>
</tr>
</tbody>
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Clearance
**Caution:** Before installation, inspect the maximum height of your ceiling. Check the distance between the bottom of the range hood and the countertop of your cooking appliance.

The required distance from the countertop of range top/ cook top to your Thor Kitchen Range hood should be between 27” to 30”.

For clearance more than 30”, it will affect the efficiency of the hood.

For the clearance less than 27”, the extra heat from the range top/ cook top will potentially cause damage to range hood switch button/ display control board.
Installation

1. Open-box Check
Open the box for your Thor Kitchen Range hood, Locate **power cord, mounting plate (2 pcs for certain designs), screw sets, filters (2pcs for 30-inch and 36-inch range hood, 3 pcs for 48-inch range hood), small filters (2 pcs for all designs) and grease tray (1 pc)** inside the box. You should also have a template showing the back layout of your range hood, including mounting plate and mounting screws.

** If you discover concealed damage of the unit or a part missing in the box, please contact your dealer or Thor directly.

2. Mounting Template
Attach the template to the wall where you want to install your Thor kitchen Range hood, mark all the positions for screws and outlines of the range hood and mounting plate. Use tape to place the template to the wall.

3. Mounting plate installation
Two types of screws are included in your range hood package:

(1) Short Screw set (a) is used for connecting range hood to the mounting plate. 6 (or 4) screws is needed for reach mounting plate.
(2) Drywall Screw set (b) and (c) are used for securing range hood (mounting plate) to the wall.

- It’s required that holding plate (mounting plate) needs to be anchored in studs – the wall alone will not be strong enough to support range hood’s weight. The center of a stud provides the best support for the range hood. At least one Drywall Screw set needs to be mounted into stud. Use stud Finder to locate the stud before mounting the drywall screw set to the wall.

4. Short Screw Set Installation and Drywall Screw set installation
- Verify the mounting plate design. The side with 7 holes (including 4 small holes) if for the top side. Holes in Middle line and bottom line are for short screw set mounting, connecting range hood to the mounting plate;
- The 3 big holes on the top line are for Drywall Screw Set mounting, connecting mounting plate (range hood) to the wall.
5. Duct Pipe Sealing
Use duct sealing tape to connect duct pipe to the hood duct. Avoid reducing for the duct pipe size or it will affect hood performance.

- We provide a 6\(\frac{7}{8}\) inches (in certain models 7\(\frac{5}{8}\) inches) duct size for your Thor Kitchen Range Hood. Recommended duct size for your range hood is shown below:

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6. Connect Power Cord to the range hood
- Locate the power cord in your range hood package, connect the power cord to your range hood power outlet (located on the top rear right of the range hood)

7. Installing Grease Tray and Filters

Grease tray is included in your range hood package, it helps to stabilize the filter and collect the grease coming from the filter. Please follow procedures below for the installation of Grease Tray and Filters:

- Put the grease filter to the bottom end of the range hood;
- Remove the protective cover of the filter, and put the filter all the way to the end into the range hood cavity (1);
- Lift the front of the filter (2);
- Locate the notch inside the front range hood cavity, put the filter into the notch (3) and lay down the bottom part of the filter (4);
- Put the bottom of the filter into the notch provided by Grease Filter and make sure the filter is stable and not falling off.
8. Filter handle Installation
Your Thor Kitchen Range Hood might have a KD design handle.

9. For Ceiling pipe
If the duct vents to the top ceiling:
• Use a pencil to draw a vertical line from the center of the template to the top ceiling;
• Make sure there’s at least 4” clearance from the back wall to the top ceiling where the hood duct is located, and the size of the hood duct on top ceiling should be no less than 7\(^{1/2}\)” (8\(^{1/2}\)” for 05 series range hood).

10. Duct Cover (For 08 Black Stainless Steel Only)
For your 08 series BS (Black Stainless Steel) design, Duct Cover will be regarded as a optional purchase (not included with the range hood). Please contact Thor Kitchen directly or reach your dealer for purchase.
<table>
<thead>
<tr>
<th>Parts</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side panel</td>
<td>2</td>
</tr>
<tr>
<td>front panel</td>
<td>1</td>
</tr>
<tr>
<td>back support</td>
<td>1</td>
</tr>
<tr>
<td>1/4*8 Bolts</td>
<td>8</td>
</tr>
<tr>
<td>5/32*10 Bolts</td>
<td>7</td>
</tr>
</tbody>
</table>
Tools for Installation

- Marker or pencil
- Utility knife
- Measuring tape
- Level
- Powered screwdriver or drill
- Flat-blade and Phillips screwdrivers