

INSTALLATION MANUAL

THERMADOR PROFESSIONAL SERIES® Wall Hoods

MANUEL D'INSTALLATION

Hottes Murales de la Série PROFESSIONAL^{mc}
de THERMADOR

MANUAL DE INSTALACIÓN

Para Campanas de Pared PROFESSIONAL® de
THERMADOR

**Models/
Modèles/
Modelos:**

PH30HS
PH36HS
PH48HS
PH36GS
PH42GS
PH48GS
PH54GS

Thermador 
REAL INNOVATIONS FOR REAL COOKS®

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This THERMADOR® appliance is made by
BSH Home Appliances Corporation
1901 Main Street, Suite 600
Irvine, CA 92614

Questions?

1-800-735-4328

www.thermador.com

We look forward to hearing from you!

Safety



IMPORTANT SAFETY INSTRUCTIONS READ AND SAVE THESE INSTRUCTIONS

**APPROVED FOR ALL RESIDENTIAL APPLIANCES
FOR RESIDENTIAL USE ONLY**

Before You Begin

IMPORTANT: Save these Instructions for the Local Gas Inspector's use.

INSTALLER: Please leave these Instructions with this unit for the owner.

OWNER: Please retain these instructions for future reference.



WARNING:

If the information in this manual is not followed exactly, fire or shock may result causing property damage or personal injury.

Do not repair or replace any part of the appliance unless specifically recommended in the manuals. Improper installation, service or maintenance can cause injury or property damage or void product warranty. Refer to this manual for guidance. All other servicing should be done by a qualified technician.



CAUTION:



The unit is heavy and should be handled accordingly. Proper safety equipment such as gloves and adequate manpower of at least two people must be used in moving the hood to avoid injury and to avoid damage to the unit or the floor. Rings, watches, and any other loose items that may damage the unit or otherwise might become entangled with the unit should be removed.

Hidden surfaces may have sharp edges. Use caution when reaching behind or under appliance.

Safety Codes and Standards

This appliance complies with the following Standards:

- UL 507, Standard for the Safety of Electrical Fans
- CAN/CSA-C22.2 No. 113, Fans and Ventilators

It is the responsibility of the owner and installer to determine if additional requirements and/or standards apply to specific installations. Always refer to local codes to ensure all requirements are met.

If required by the National Electrical Code (or Canadian Electrical Code), this appliance must be installed on a separate branch circuit.

INSTALLER — show the owner the location of the circuit breaker or fuse. Mark it for easy reference.



WARNING:

Turn off power circuit at service panel and lock out panel before wiring this appliance. Requirement: 120 VAC, 60 Hz 20 A. Allow the appliance to cool after the power has been turned off before servicing the appliance.



WARNING:

To reduce the risk of fire use only metal ductwork.



CAUTION:

Vent unit to the outside of building only. This unit is only designed to be vented outside. It should not be used for recirculation mode.

Never modify or alter the construction of the appliance. For example, do not remove panels or wire covers.



IMPORTANT SAFETY INSTRUCTIONS

READ AND SAVE THESE INSTRUCTIONS

Grounding Instructions:

This appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current.

Be sure your appliance is properly installed and grounded by a qualified technician. Installation, electrical connections and grounding must comply with all applicable codes.



WARNING:

Improper grounding can result in a risk of electric shock. Consult a qualified electrician if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.



WARNING:

To Reduce The Risk Of Fire Or Electric Shock

Do not use this fan with any solid-state speed control devices.

- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- To properly exhaust air, be sure to duct air outside. Do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages.
- Before you plug in an electrical cord, be sure all controls are in the OFF position.



WARNING:



Halogen lights and heat lamps might be hot. Disconnect from power and allow to cool before servicing.

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSONS OBSERVE THE FOLLOWING:

- This ventilator assembly must be installed with THERMADOR® recommended blowers only. Contact Customer Service for additional options.
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact Customer Service at 1-800-735-4328.
- Before servicing or cleaning unit, switch power OFF at service panel and lock the service disconnecting means 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.



WARNING:

Local building codes may require the use of make-up air systems when using ducted ventilation systems greater than specified CFM of air movement. The specified CFM varies from locale to locale. Consult your HVAC professional for specific requirements in your area.



CAUTION:

For general ventilating use only. DO NOT use to exhaust hazardous or explosive materials or vapors.

Installation Preparation

General Information

Before using your appliance, be sure to read this manual. Pay special attention to the **Important Safety Instructions** located at the beginning of the manual.

This manual provides the proper installation instructions for two styles of THERMADOR PROFESSIONAL® series wall hoods:

- **PHxxGS** — 27" (686 mm) in depth, with widths of 36" (914 mm), 42" (1067 mm), 48" (1219 mm), and 54" (1372 mm). This model series features brushed stainless-steel canopy with halogen lamps and heat lamps.
- **PHxxHS** — 24" (610 mm) in depth, with widths of 30" (762 mm), 36" (914 mm), and 48" (1219 mm). This model series features brushed stainless-steel canopy with halogen lamps.

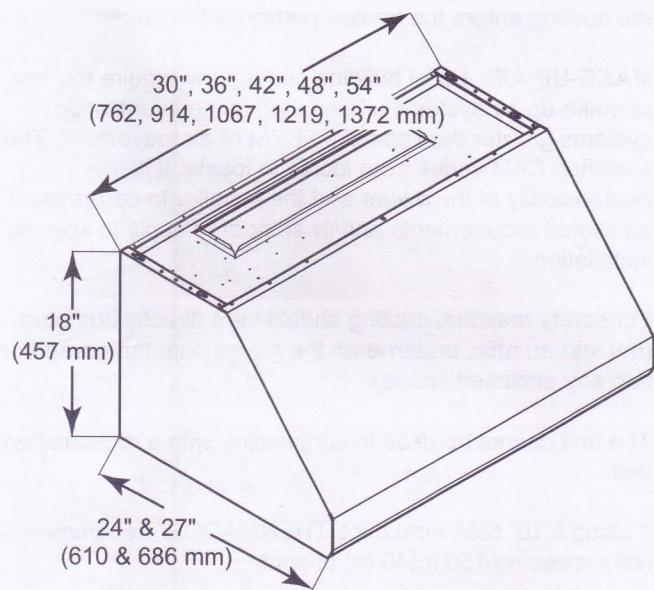
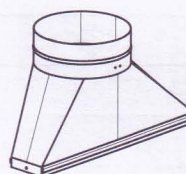


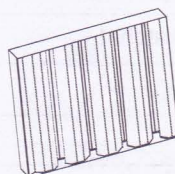
Figure 1: 24" & 27" Wall Hood Overall Dimensions

Planning Information

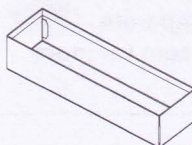
Parts Included



1 – Metal transition with backdraft damper



2, 3, or 4 – Stainless steel baffle filters (depending on model size)



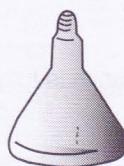
2 – Filter spacers



2 or 3 – Grease trays (depending on model size)



2 or 4 – Halogen lights (installed)



2 – 175W Heat lamps (on some models)



1 – Remote blower adaptor



1 – Wooden bracket used as Hood Mounting Bracket (part of install- **DO NOT THROW AWAY**)



1 – Fastener assortment

Use & Care Guide, Installation Manual, and Registration Card

Tools and Parts Needed

Aluminum tape (**DO NOT** use duct tape)

1/2" (13 mm) Conduit if required (follow local codes)

1" (25.4 mm) Strain relief

EXTNCB25 – 25 ft. Blower Connector Cable for distances up to 25 ft.

Ducting as needed

Blower

Flat head and phillips screwdrivers

Drill with 3/16" (4.76 mm) drill bit

3/8" (9.52 mm) nut driver or socket and ratchet

Wire stripper

Protective work gloves

Optional accessories available for separate purchase. Refer to www.thermador.com for more details.

Duct Cover

Keep Hot Shelf

Backsplash



Remove all tape and packaging before using the appliance. Please, recycle the packaging material, as all THERMADOR® appliance packaging material is recyclable. Never allow children to play with packaging material.

NOTE:

Do not throw away any packaging until appliance is fully installed.

Considerations Before Installing Hood

- The installation height ranges from a minimum height of 30" (762 mm) to a maximum height of 40" (1,016 mm); however, it is necessary to follow the cooking appliance manufacturer's installation instructions for proper hood height.
- Hood installation height above a rangetop or range can vary. To obtain the necessary installation height above a THERMADOR PROFESSIONAL® rangetop or range, consult the appliance's installation manual.
- For indoor grill installations, THERMADOR® recommends a minimum of 36" (914 mm) clearance and remote and inline blowers only.
- Remote blowers require a five wire installation.
- **Hood must be vented to the outside of building only.**

Ductwork Preparation

Ducting Recommendations

Proper performance is dependent upon proper ducting. Local building codes may require the use of make-up air systems when using ducted ventilation systems greater than specified cubic feet per minute (CFM) of air movement. The specified CFM varies from locale to locale. It is the responsibility of the owner and the installer to determine if additional requirements and/or standards apply to specific installations.

DO NOT USE FLEXIBLE DUCT; it creates back pressure/air turbulence and reduces performance. Always use metal ductwork with a minimum diameter of 6" (150 mm).

Always install a metal vent cover where the ductwork exits the house.

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.

MAKE-UP AIR: Local building codes may require the use of make-up air systems when using ducted ventilation systems greater than specified CFM of air movement. The specified CFM varies from locale to locale. It is the responsibility of the owner and the installer to determine if additional requirements and/or standards apply to specific installations.

For safety reasons, ducting should vent directly outdoors (not into an attic, underneath the house, into the garage or into any enclosed space).

The unit cannot be used in conjunction with a recirculation unit.

If using a 10" (254 mm) duct, THERMADOR® recommends not exceeding 150 ft (46 m) of duct.

Keep duct runs as short and straight as possible. Elbows and transitions fittings reduce air flow efficiency. Back to back elbows and "S" turns give very poor delivery and are not recommended. A short straight length of duct at the inlet of a remote blower gives the best delivery.

Hoods are supplied with a 10" (254 mm) round transition. A locally supplied transition is required for other sizes.

Use *Table 1 on page 5* to compute permissible lengths for duct runs to outdoors.

Equivalent Duct Lengths for Commonly Used Transitions

Duct Piece	Size of Duct Piece (in)	Equivalent Length (ft)	Duct Piece	Size of Duct Piece (in)	Equivalent Length (ft)
 Smooth Straight	6	1.2	 3 1/4" x 10" to Round 90° Elbow	6	10
	7	0.95		7	5
	8	0.7	 3 1/4" x 10" Center Reverse Elbow Left	N/A	15
	10	0.6		N/A	25
 3 1/4" x 10" Straight	N/A	1	 3 1/4" x 10" Center Reverse Elbow Right	N/A	25
	N/A	0.7		N/A	15
 3 1/4" x 14" Straight	N/A	0.7	 3 1/4" x 10" Left Reverse Elbow	N/A	15
	N/A	0.7		N/A	25
	N/A	0.7		N/A	25
 90° Elbow Round	6	12	 Round Wall Cap	6	2
	7	8		7	2
	8	6		8	2
 45° Elbow Round	6	5		10	2
	7	4	 Round Roof Cap	6	2
	8	3		7	2
 3 1/4" x 10" 90° Elbow Round	N/A	5		8	2
	N/A	15	 2' Long 3 1/4" x 10" Flex	N/A	20
 3 1/4" x 10" 45° Elbow Round	N/A	15		10	1
	N/A	20	 7" Inline Backdraft Damper	7	
 3 1/4" x 10" Flat Elbow	N/A	20		N/A	
	N/A	20	 3 1/4" x 10" Roof Jack and Shutter	N/A	
 Round to 3 1/4" x 10"	6	1			
	7	1			
 3 1/4" x 10" to Round	6	5			
	7	3			
 Round to 3 1/4" x 10" 90° Elbow	6	10			
	7	8			

NOTE: These commonly used installation parts can be purchased at a local hardware store. THERMADOR® does not manufacture all these parts.

Table 1: Duct Lengths

Electrical Requirements

The unit requires a 120V AC, 60Hz, 15A branch circuit. The VTR1330E blower in conjunction with a 27" Pro Hood requires a 20 amp circuit breaker.

The hood should only be connected to a dedicated circuit (with ground) that has been installed according to relevant regulations.

When connected to a GFCI-protected supply, THERMADOR PROFESSIONAL® hoods are suitable for use in damp locations that are protected from outside weather conditions and not subject to saturation with water and other liquids, but can be subject to moderate degrees of moisture (such as an outdoor covered patio or lanai area). Refer to local codes, NEC/CEC, and or the Authority Having Jurisdiction (AHJ) for additional information.

Check your local building codes for proper method of installation. In the U.S., if there are no applicable local codes, this unit should be installed in accordance with the National Electric Code ANSI/NFPA No. 70, Current Issue. In Canada, installation must be in accordance with the CAN 1- B149.1 and .2 - Installation Codes for Gas Burning Appliances and/or local codes.

The appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing a wire that allows the electric current to escape.



WARNING:

The appliance must be grounded.

Electrical Data on the Data Rating Plate:

Data, including the model and serial number, is located on the product data rating plate inside the appliance, visible after removal of the filter frame (see Figure 26 on page 16).

Hood Preparation

Note:

Optional stainless steel backsplashes are available in widths to match all pro wall hoods. Before installing the hood, the backsplash should be installed first. See directions accompanying the backsplash for full installation instructions.

Discharge Direction:

The hood can be mounted on a wall or suspended from a cabinet. Both vertical and horizontal discharge are possible with either mounting method.

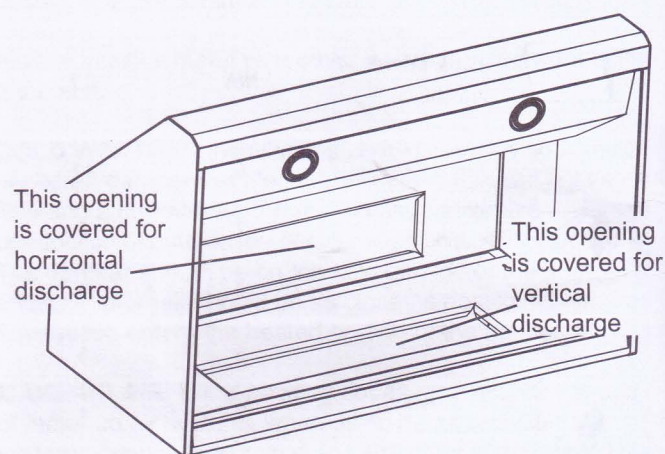


Figure 2: Discharge Direction

The hood is shipped ready for vertical discharge. To change to horizontal discharge, move the discharge cover shown in Figure 2 to the top of the hood. The plate is held in place by (4) screws.

Hood Transition

The supplied transition mounts to the top or rear of the hood depending on the discharge direction.

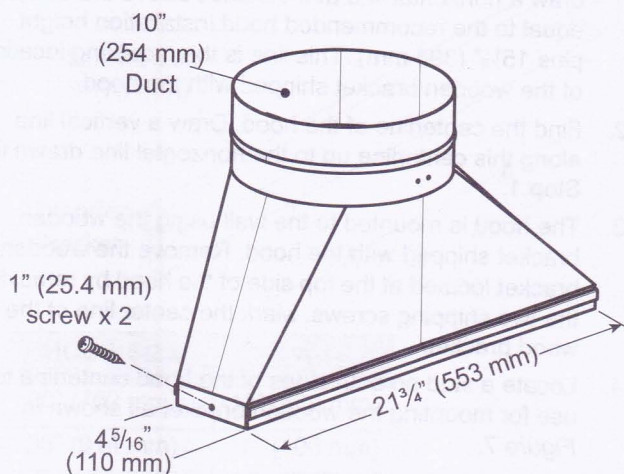


Figure 3: Transition

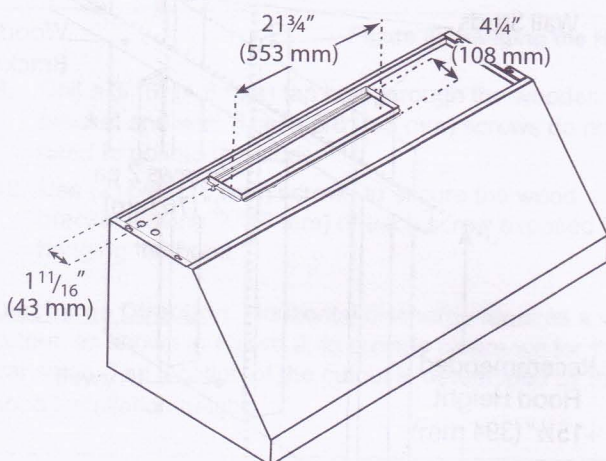


Figure 4: Transition Cutout Dimensions

Assembly of the Transition:

A minimum height clearance of 6" (152 mm) is needed above the hood for transition mounting. See *Figure 1* on page 3 for overall hood dimensions.

1. Depending on direction of discharge, align mounting holes at base of transition with the mounting holes of the $\frac{1}{2}$ " (13 mm) flange located at the top or rear of the hood.
2. Fasten transition to hood using (2) 1" (25.4 mm) sheet metal screws included with hood.
3. Seal connection between transition and hood with aluminum tape.
4. Remove tape holding damper closed.

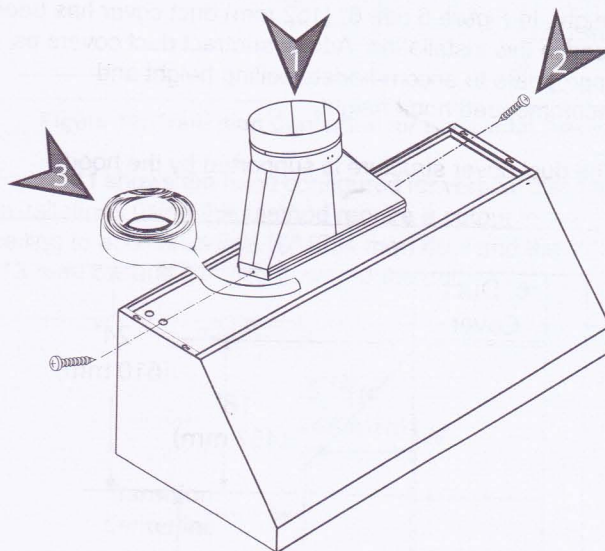


Figure 5: Transition Connection

Installation Instructions

Wall Mount Installation

Installation Specifications

Figure 6 shows a typical installation of the hood with a duct cover. Accessory 6" (152 mm) and/or 12" (305 mm) duct covers are used to fill the space between the hood and ceiling (available for purchase separately).

The installation height ranges from a minimum height of 30" (762 mm) to a maximum height of 40" (1016 mm); however, it is necessary to follow the cooking appliance manufacturer's installation instructions for proper hood height. In Figure 6 one 6" (152 mm) duct cover has been used in this installation. Add or subtract duct covers as appropriate to accommodate ceiling height and recommended hood height.

The duct cover structure is supported by the hood.

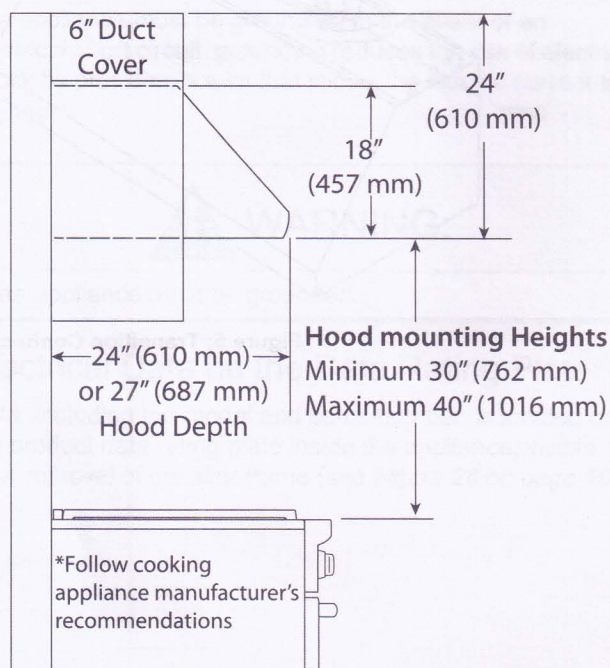


Figure 6: Typical Hood Installation

NOTICE:

The hood could incur some damage from heat if a THERMADOR PROFESSIONAL® series range or rangetop is operated with multiple burners at high settings under a hood that is installed at minimum clearances.

1. After the hood installation height has been determined, draw a horizontal line at a distance above the cooktop equal to the recommended hood installation height plus 15½" (394 mm). This line is the mounting location of the wooden bracket shipped with the hood.
2. Find the centerline of the hood. Draw a vertical line along this centerline up to the horizontal line drawn in Step 1.
3. The hood is mounted to the wall using the wooden bracket shipped with the hood. Remove the wooden bracket located at the top side of the hood by removing the two shipping screws. Mark the center line of the wood bracket.
4. Locate a stud on both sides of the hood centerline to use for mounting the wooden bracket as shown in Figure 7.

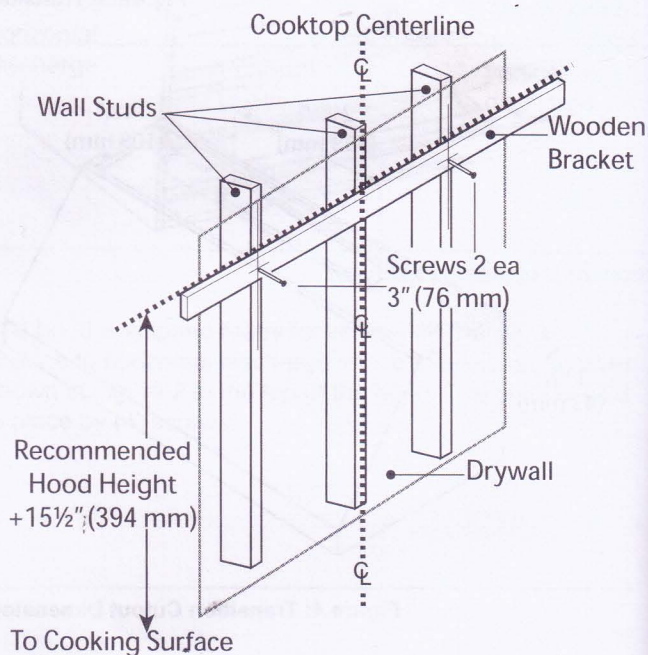
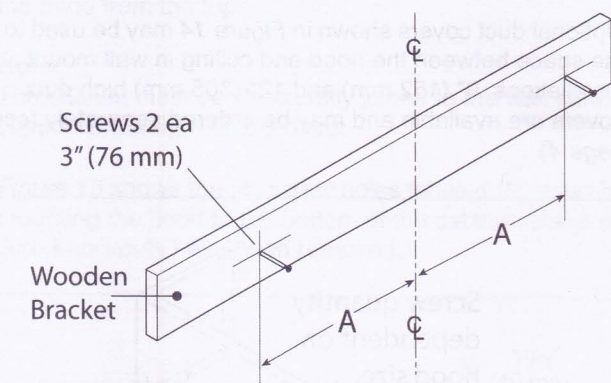


Figure 7: Mounting the Wooden Bracket

5. Align the top of the wood bracket along the horizontal line drawn in Step 1. Align the centerlines of the bracket and cooktop.
6. Drill a 3" (76 mm) deep 3/16" (3 mm) tap hole through the wooden bracket, wall, and into the stud.
7. Use (2) or (3), depending on model, 3" (76 mm) screws to attach the bracket to the wall, as shown in Figure 7. For support of longer hoods, use three studs. Countersink the screw heads to prevent interference with the hood.

8. On the wood bracket, mark the locations used to hang the hood according to *Figure 8*.



HOOD SIZE	A
30" (762 mm)	13" (330 mm)
36" (914 mm)	16" (406 mm)
42" (1067 mm)	19" (483 mm)
48" (1219 mm)	22" (559 mm)
54" (1372 mm)	25" (635 mm)

Figure 8: Hanging the Hood

9. Drill a 3/16" (4.8 mm) tap hole through the wooden bracket and wall. These 5/8" (16 mm) screws do not need to go into the studs.
10. Use (2) 5/8" (16 mm) screws to secure the wood bracket leaving 1/4" (6 mm) of each screw exposed for hanging the hood.

Discharge Direction: Horizontal discharge requires a wall cutout, as shown in *Figure 9*, to provide clearance for the transition. The location of the cutout is determined by the hood installation height.

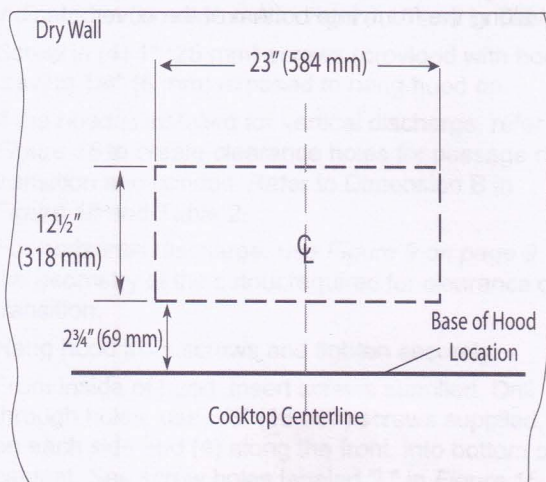


Figure 9: Cutout Dimensions

Note:
Dashed line indicates cutout needed for clearance of the transition.

The transition supplied with the hood connects to standard 10-inch round duct. *Figure 10* shows the transition connected for horizontal discharge.

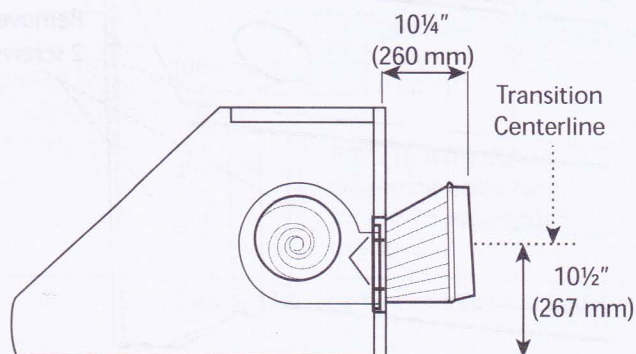


Figure 10: Transition Centerline for Horizontal Discharge

Figure 11 shows the hood configured for vertical discharge. Installations using this method require a cutout in the ceiling to accommodate 10" (254 mm) duct and the 1/2" (13 mm) conduit carrying power to the unit.

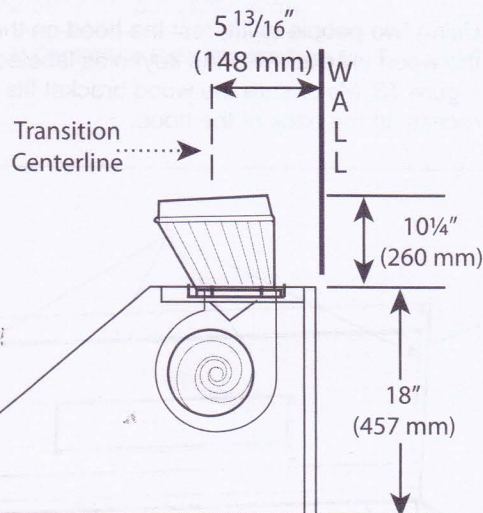


Figure 11: Transition Centerline for Vertical Discharge

Duct covers, sold separately, are available to cover the space between the top of the hood and ceiling (see *Figure 14*).

11. Remove junction box channel covering the wires.
12. Remove circular knockouts behind junction box channel.

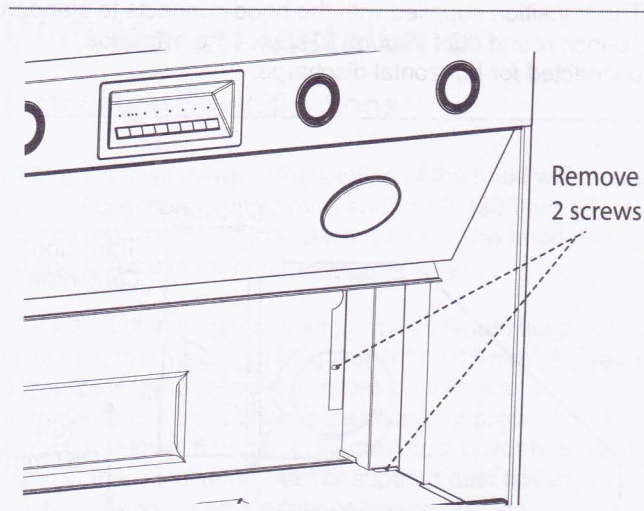


Figure 12: Junction Box Channel

13. Before hanging hood, install transition per *Figure 10* or *Figure 11*. Fasten transition with (2) 3/8" sheet metal screws (supplied) and aluminum tape per all applicable codes.

Note:

Screws must not hinder damper operation.

14. Using two people to lift, rest the hood on the screws in the wood bracket. Use the keyholes labeled "F" in *Figure 13*. Make sure the wood bracket fits into the recess on the back of the hood.

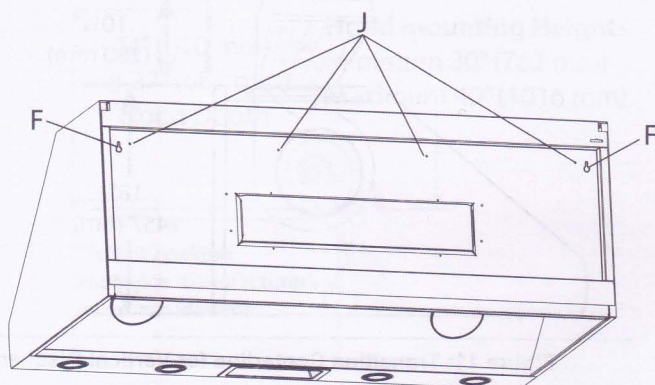


Figure 13: Location of Screw Keyholes

15. Tighten the screws in keyholes. Check hood levelness and adjust if necessary.
16. From inside the hood, drive 5/8" (16 mm) screws through holes in hood into wooden bracket. See holes labeled "J" in *Figure 13*.
17. Connect additional ducting.

Duct Covers Assembly & Installation (optional)

Optional duct covers shown in *Figure 14* may be used to fill the space between the hood and ceiling in wall mount installations. 6" (152 mm) and 12" (305 mm) high duct covers are available and may be ordered separately (see *page 4*)

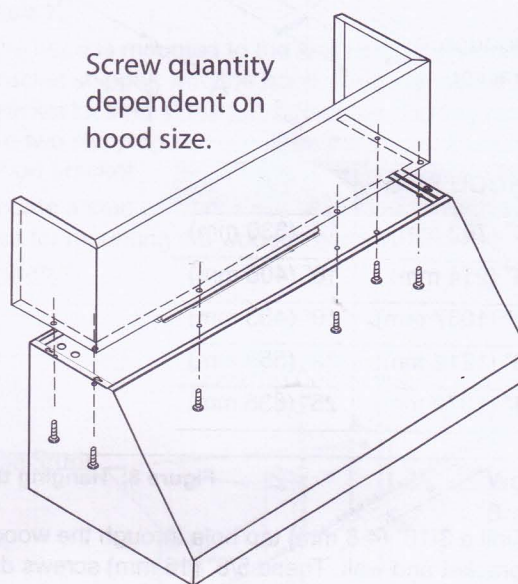


Figure 14: Attachment of Duct Cover(s) to Hood

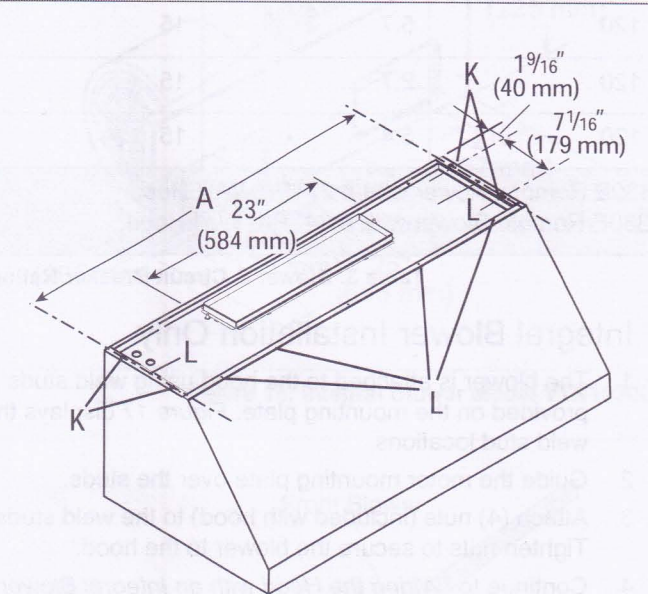
1. If multiple duct covers are used, connect the pieces together using sheet metal screws provided with the duct cover accessories.
2. Attach the duct cover(s) to the hood using sheet metal screws as shown in *Figure 14*.
3. From inside of hood, insert 5/8" (16 mm) screws supplied through the holes indicated on each side and along the front, into bottom of the cover.

Cabinet Installation

The hood can be installed under a cabinet by supporting the hood from the top.

Note:
The cabinet must be structurally joined to the wall studs to support the weight of this hood.

Figure 15 shows the (4) screw holes labeled "K" used for mounting the hood to the bottom of the cabinet. Make sure both knockouts have been removed.



Note:
This figure depicts tap hole and screw hole locations only. See Figure 1 on page 3 for overall hood dimensions.

Figure 15: Tap Hole and Screw Hole Locations

1. In the base of the cabinet, drill 1/8" (3 mm) tap holes as indicated in Dimension A in Figure 15 and in Table 2.
2. Screw in (4) 1" (25 mm) screws (provided with hood) leaving 1/4" (6 mm) exposed to hang hood on.
3. If the hood is installed for vertical discharge, refer to Figure 16 to create clearance holes for passage of the transition and conduit. Refer to Dimension B in Figure 16 and Table 2.
4. For horizontal discharge, use Figure 9 on page 9 for the geometry of the cutout required for clearance of the transition.
5. Hang hood from screws and tighten securely.
6. From inside of hood, insert screws supplied. Drill through holes, use 5/8" (16 mm) screws supplied, (1) on each side and (4) along the front, into bottom of the cabinet. See screw holes labeled "L" in Figure 15.

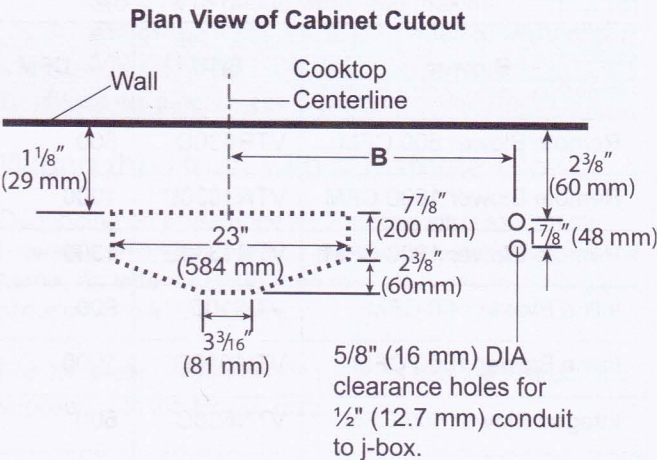


Figure 16: Transition and Conduit Locations

HOOD SIZE	Tap Holes A, Figure 15	Conduit Holes B, Figure 16
30" (762 mm)	29" (736 mm)	13" (330 mm)
36" (914 mm)	35" (889 mm)	16" (406 mm)
42" (1067 mm)	41" (1041 mm)	19" (483 mm)
48" (1219 mm)	47" (1194 mm)	22" (559 mm)
54" (1372 mm)	53" (1346 mm)	25" (635 mm)

Table 2: Centerline Hole Dimensions for Tap and Conduit Holes

Blower Motor Installation

Blower	SKU	CFM	Voltage (AC)	Blower Current (AMPS)	Circuit Breaker (AMPS)
Remote Blower 600 CFM	VTR630D	600	120	4.2	15
Remote Blower 1000 CFM	VTR1030D	1000	120	5.7	15
Remote Blower 1300 CFM	VTR1330E	1300	120	8.5	20* / 15**
Inline Blower 600 CFM	VTI610D	600	120	4.2	15
Inline Blower 1000 CFM	VTI1010D	1000	120	5.7	15
Integral Blower 600 CFM	VTN630C	600	120	2.7	15
Integral Blower 1000 CFM	VTN1030C	1000	120	5.4	15

* 20 Amp circuit breaker required when using the VTR1330E Remote Blower with a 27" Pro Wall Hood.

** 15 Amp circuit breaker required when using the VTR1330E Remote Blower with a 24" Pro Wall Hood.

Table 3: Blower & Circuit Breaker Ratings



WARNING:

Cutting the plug of the blower will void the warranty or eligibility for return or exchange.

All hoods require the choice of a Remote, Inline, or Integral Blower. Use only THERMADOR® blowers with THERMADOR ventilation hoods. All blower models are sold separately. See Table 3 Blower & Circuit Breaker Ratings for recommended blowers. Contact Customer Service for additional options.



CAUTION:

To reduce the risk of fire and electric shock, install this range hood only with the blowers listed in Table 3.

All Hood models are rated for 120 VAC, using a 15 amp or 20 amp circuit breaker.

Blower selection will vary based on the volume of air that needs to be moved and the length and location of the duct run. For long duct runs with multiple turns and bends, consider using a more powerful blower. For the most efficient air-flow exhaust, use a straight run or as few elbows as possible (refer to "Ductwork Preparation" on page 4).

For indoor grill installations, THERMADOR recommends a minimum of 36" (914 mm) clearance to the bottom of the ventilation unit and Remote or Inline blowers only.

Integral Blower Installation Only

1. The blower is attached to the hood using weld studs provided on the mounting plate. *Figure 17* displays the weld stud locations.
2. Guide the motor mounting plate over the studs.
3. Attach (4) nuts (included with hood) to the weld studs. Tighten nuts to secure the blower to the hood.
4. Continue to "Wiring the Hood with an Integral Blower" on page 13.

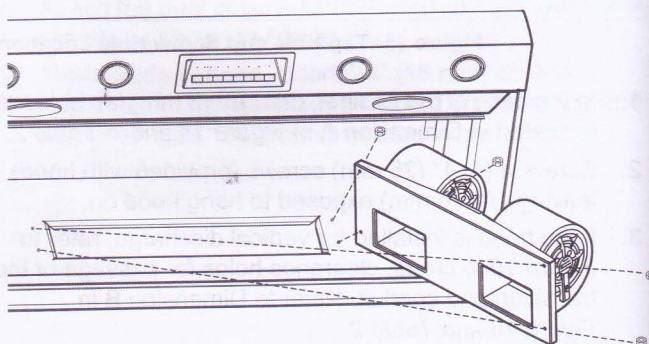


Figure 17: Weld Stud Locations

Wiring the Hood with an Integral Blower

Integral Blower models VTN630C and VTN1030C are integrated into the hood at the time of installation.

For complete installation instructions see the instructions supplied with the blower unit.

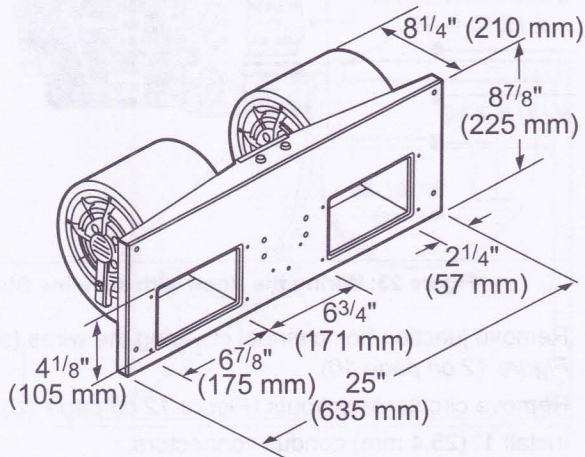


Figure 18: Integral Blower Model VTN1030C

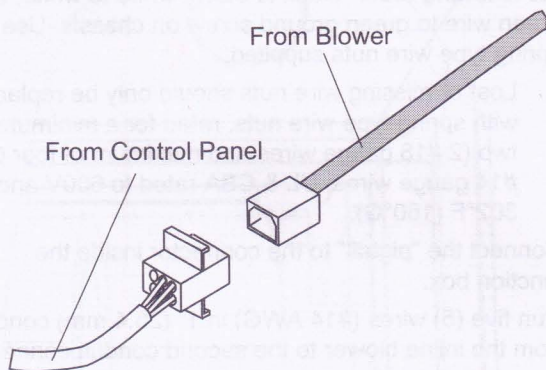


Figure 19: Wiring the Hood with an Integral Blower

1. Remove junction box channel covering the wires (see Figure 12 on page 10).
2. Remove circular knockouts (Figure 12 on page 10).
3. Connect the blower's Molex plug connector to the connector present inside the hood, as shown in Figure 19.
4. Install 1" (25.4 mm) conduit connector in junction box.
5. Run black, white, and green wires (#12 AWG) in 1" (25.4 mm) conduit from the power supply to the junction box.
6. Connect the power supply wires to the hood wires in the following order: black to black, white to white, and green wire to green ground screw on chassis. Use spring type wire nuts supplied.

- Lost or missing wire nuts should only be replaced with spring type wire nuts rated for a minimum of two (2) #18 gauge wires and maximum of four (4) #14 gauge wires, UL & CSA rated to 600V and 302°F (150°C.)

7. Close the junction box cover.

Wiring the Hood with a Remote Blower

Depending on preference and ducting situation, these blowers can be mounted on the roof or exterior wall of the home. An exterior installation may be more appealing to reduce noise in the kitchen.

For complete installation instructions see the instructions supplied with the blower unit.

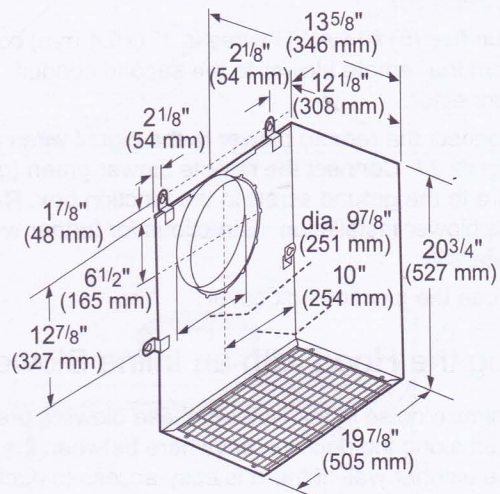


Figure 20: VTR1330E Remote Blower

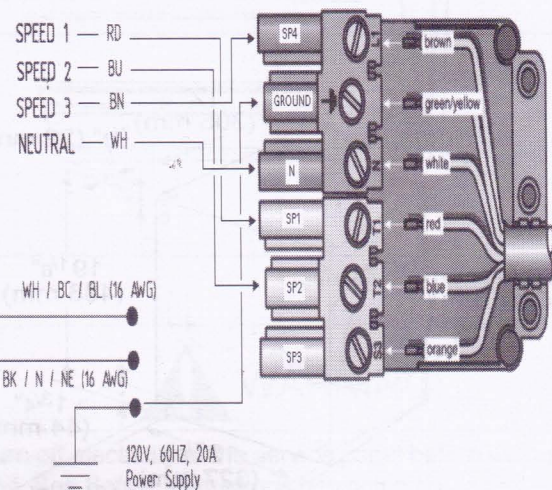


Figure 21: Wiring the Hood with a Remote Blower

1. Remove junction box channel covering the wires (see *Figure 12 on page 10*).
2. Remove circular knockouts (*Figure 12 on page 10*).
3. Install 1" (25.4 mm) conduit connectors.
4. Run black, white, and green wires (#12 AWG) in 1" (25.4 mm) conduit from the power supply to the junction box.
5. Connect the power supply wires to the hood wires in the following order: black to black, white to white, and green wire to green ground screw on chassis. Use spring type wire nuts supplied.
 - Lost or missing wire nuts should only be replaced with spring type wire nuts, rated for a minimum of two (2) #18 gauge wires and maximum of four (4) #14 gauge wires, UL & CSA rated to 600V and 302°F (150°C).
6. Connect the "pigtail" to the connector inside the junction box.
7. Run five (5) #14 AWG wires in 1" (25.4 mm) conduit from the remote blower to the second conduit connector.
8. Connect the remote blower to the pigtail wires as per *Figure 21*. Connect the remote blower green (ground) wire to the ground screw in the junction box. Refer to the blower installation instructions for further wiring details.
9. Close the junction box cover.

Wiring the Hood with an Inline Blower

To minimize noise in the kitchen, these blowers are mounted along the duct line anywhere between the kitchen and the exterior wall. If there is easy access to duct line (in an attic, for example), this may be an appealing option.

For complete installation instructions see the instructions supplied with the blower unit.

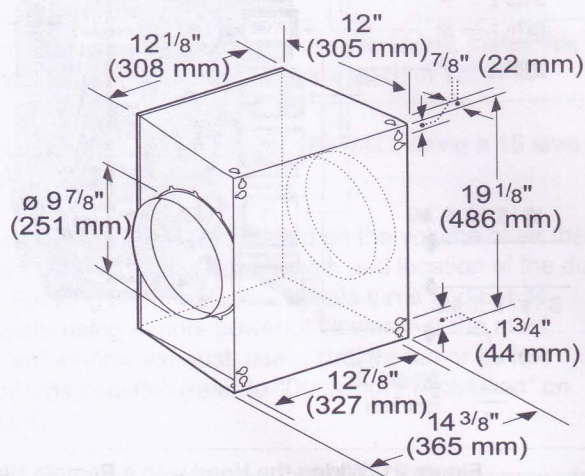


Figure 22: VTI1010D Inline Blower

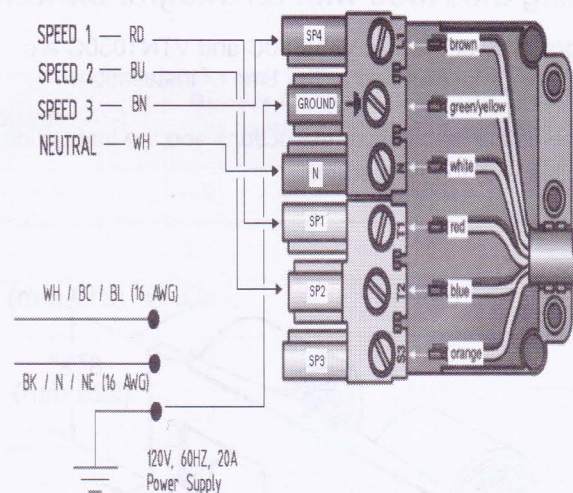


Figure 23: Wiring the Hood with an Inline Blower

1. Remove junction box channel covering the wires (see *Figure 12 on page 10*).
2. Remove circular knockouts (*Figure 12 on page 10*).
3. Install 1" (25.4 mm) conduit connectors.
4. Run black, white, and green wires (#12 AWG) in 1" (25.4 mm) conduit from power supply to junction box.
5. Connect the power supply wires to the hood wires in the following order: black to black, white to white, and green wire to green ground screw on chassis. Use spring type wire nuts supplied.
 - Lost or missing wire nuts should only be replaced with spring type wire nuts, rated for a minimum of two (2) #18 gauge wires and maximum of four (4) #14 gauge wires, UL & CSA rated to 600V and 302°F (150°C).
6. Connect the "pigtail" to the connector inside the junction box.
7. Run five (5) wires (#14 AWG) in 1" (25.4 mm) conduit from the inline blower to the second conduit connector.
8. Connect the inline blower to the pigtail wires as per *Figure 23*. Connect the inline blower green (ground) wire to the ground screw in the junction box.
9. Close the junction box cover.

Wire Routing Instruction

Vertical Discharge Wire Routing

Install wire cover per *Figure 24*. The PH30HS model does not need a wire cover.

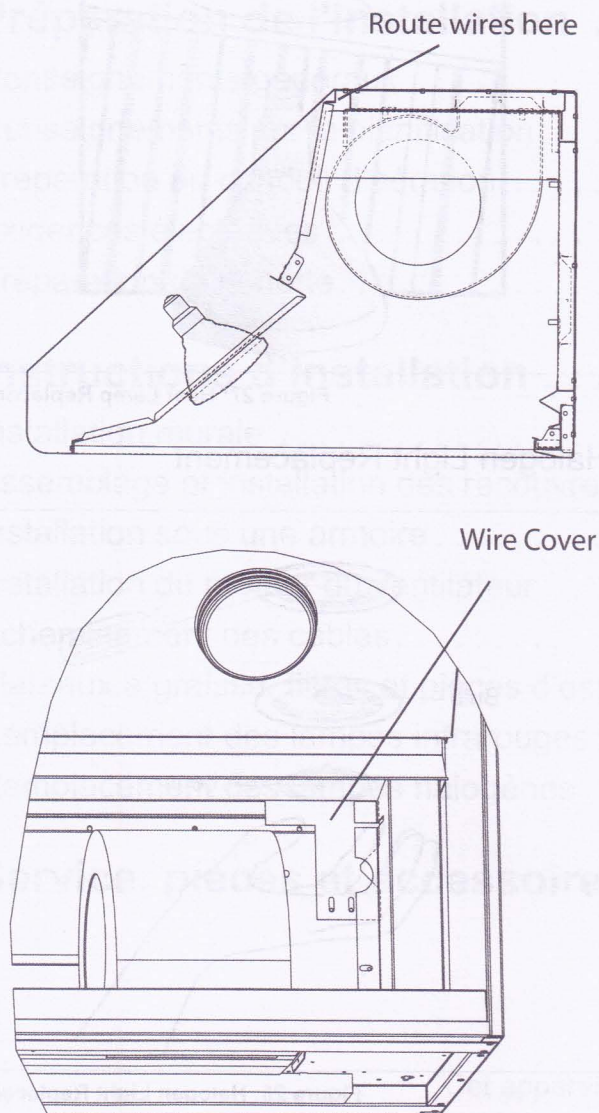


Figure 24: Vertical Discharge

Horizontal Discharge Wire Routing

Install wire cover per *Figure 25*. The PH30HS model does not need a wire cover.

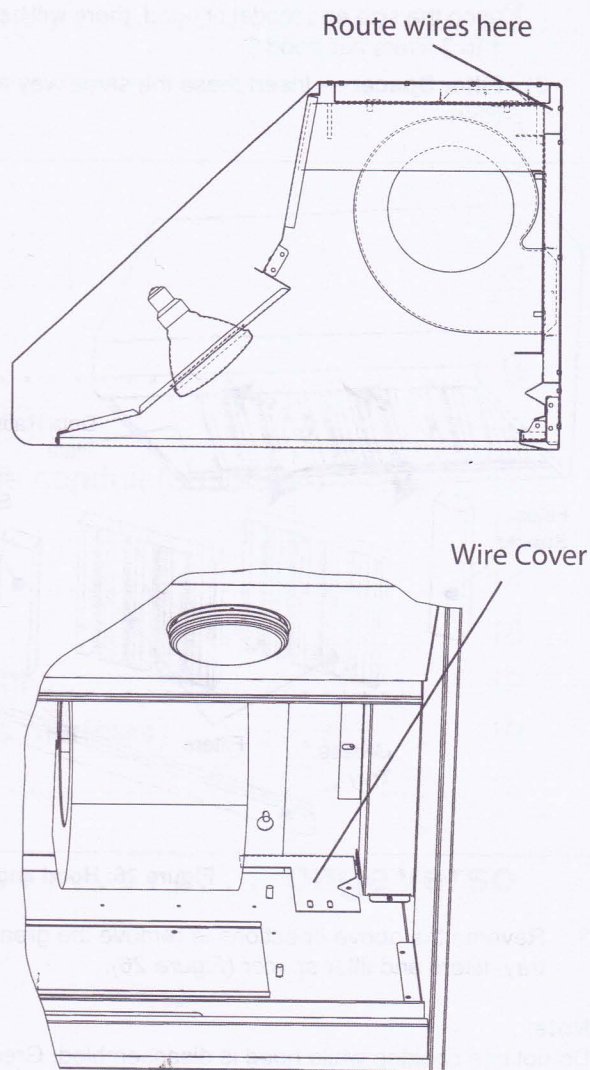


Figure 25: Horizontal Discharge



WARNING:

Turn off electricity at the service panel before wiring the unit. See Safety Instructions beginning on *page 1*.

Installing Grease Trays, Filters and Spacers

1. Remove all plastic from hood pieces.
2. Insert in the following order:
 - 1) **Grease Tray** — Push up and in over the rear lip.
 - 2) **Filters** — Slide filter over the front lip. Push filter rear up, then slide back over rear lip. Depending upon the size and model of hood, there will be from 1 to 3 filters per hood.
 - 3) **Filter Spacer** — Insert these the same way as the filters.

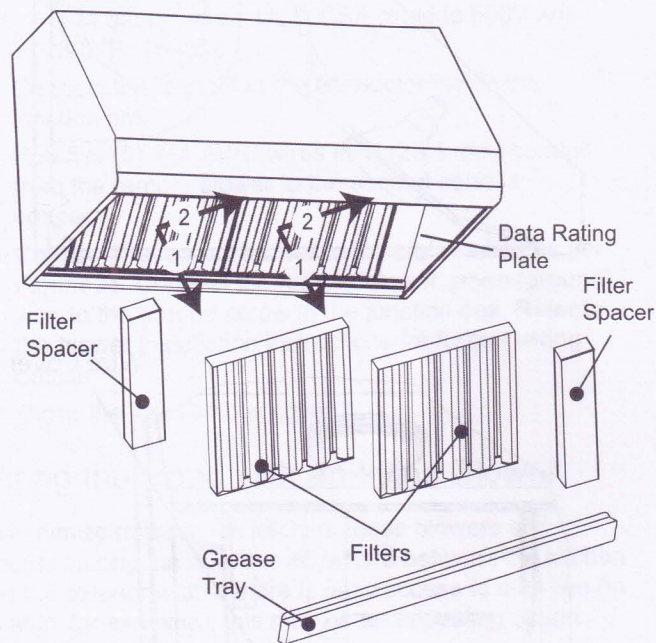


Figure 26: Hood and Parts

3. Reverse the above directions to remove the grease tray, filters and filter spacer (Figure 26).

Note:

Do not use cooktop while hood is disassembled. Grease trays must be in place before installing the filters.

Heat Lamp Replacement (some models)

- Turn heat lamp clockwise to install (Figure 27).
- Replace lamp with either a PAR-38 175W heat lamp or a PAR-40 250W heat lamp.

Refer to the Use and Care Guide for additional information.

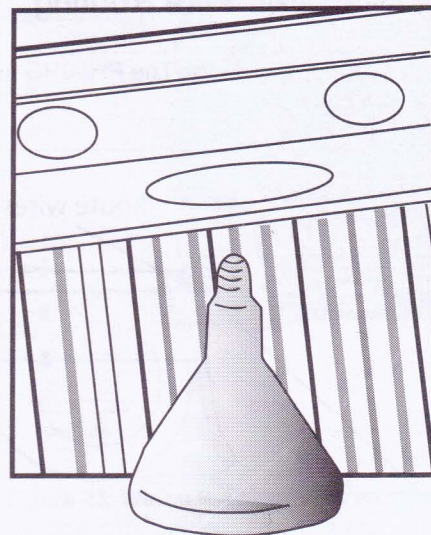


Figure 27: Heat Lamp Replacement

Halogen Light Replacement

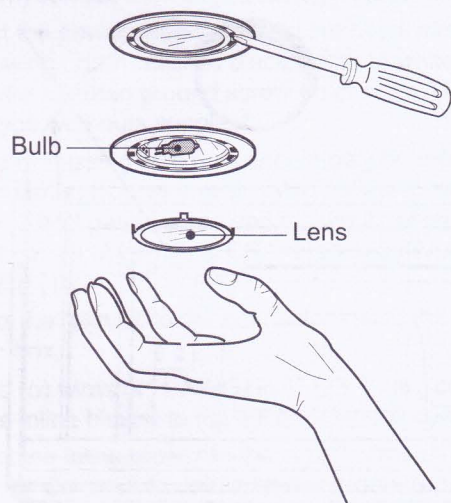


Figure 28: Halogen Light Replacement

1. Using a flat edge from a screwdriver or equivalent tool, pry loose the lens cover, as shown in Figure 28.
2. Pull damaged bulb straight out from the socket to remove.
3. Replace with a new 120 V, 40W (maximum) bulb with G-9 base. Press pins in bulb base straight into socket until fully seated. Follow package directions and do not touch new light with bare hands, the oils from your skin can reduce the longevity of the bulb.
4. Reinstall the light and cover.