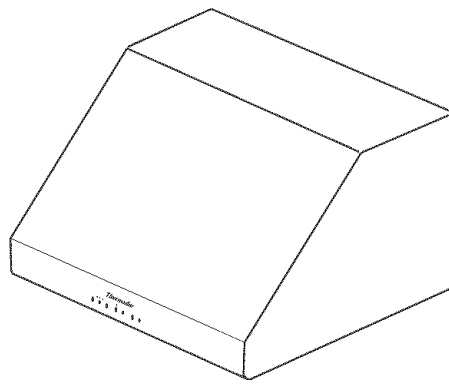


INSTALLATION INSTRUCTIONS
PH SERIES WALL HOOD



APPROVED FOR ALL RESIDENTIAL APPLIANCES
FOR RESIDENTIAL USE ONLY

PLEASE READ ENTIRE INSTRUCTIONS BEFORE PROCEEDING.
INSTALLATION MUST COMPLY WITH ALL LOCAL CODES.

- IMPORTANT:** Save these Instructions for the Local Electrical Inspector's use.
INSTALLER: Please leave these Instructions with this unit for the owner.
OWNER: Please retain these instructions for future reference.



SAFETY WARNING

Turn off power circuit at service panel and lock out panel
before wiring this appliance.

REQUIREMENT: 120 V AC, 60 Hz. 20 A Branch Circuit

READ AND SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

SAFETY WARNING

Turn off power circuit at service panel and lock out panel, before wiring this appliance.

REQUIREMENT: 120 V AC, 60 Hz. 20 A

CAUTION

FOR GENERAL VENTILATING USE ONLY. DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE MATERIALS OR VAPORS.

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- A. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer. (Thermador Customer Service at 800/735-4328.
- B. Before servicing or cleaning the unit, switch power off at service panel and lock service panel. This will prevent power from being switched on accidentally. When the service panel cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

- C. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes & standards, including fire-rated construction.
- D. Sufficient make-up 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 manufacturers guideline and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- E. Due to size and weight of this unit two installers are recommended.
- F. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- G. 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.

WARNING

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCT WORK.

- H. Install this hood in accordance with all requirements specified.

CAUTION:

Vent Unit to the Outside.

Parts Included with your Hood

- Hood Canopy
- 12-Volt halogen bulbs, installed
- Care & Use /Installation Instructions
- Registration Card
- Filters (2, 3, or 4 depending on model and size)
- Metal Transition with Back draft damper installed
- Fasteners
- Remote Blower ("pigtail") Adaptor
- Wooden Strip for Hood Support
- Wire Nuts

Parts Not Included with your Hood

- Duct Tape
- 1/2" Conduit
- 2 175W PAR-38 Heat Lamps or
2 250W PAR-40 Heat Lamps
- Ventilator- The hood can be installed with ventilator models VTN1000Q, VTR600R, VTR1000Q, and VTR1400Q
- Optional duct cover, 6" DC**US or 12" DCT**US height (available for purchase seperately)
** = width of hood
- Optional Remote Control (available for purchase separately)

CONSIDERATIONS BEFORE INSTALLING HOOD

1. 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.

2. Do not use flex ducting.
3. 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.
4. Hood installation height above cooktop is the users preference. The lower the hood above the cooktop, the more efficient the capturing of cooking odors, grease, and smoke. This hood has been approved for installations as low as 24 inches* above the cooktop. The lower height

may be inconvenient for tall people and large cooking vessels. Consequently, Thermador recommends the hood be installed 30-to-36 inches above the countertop.

- * For indoor grill installations, Thermador recommends a minimum of 30" clearance and remote blowers only (VTR1000Q or VTR 1400Q)
5. Remote blowers require a five wire installation.
6. 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. Consult your HVAC professional for specific requirements in your area.
7. Refer to Remote Control Installation Instructions if applicable.

Appliance Installation

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

Discharge Direction: The hood is shipped ready for vertical discharge. To change to horizontal discharge move the discharge cover shown in Figure 1a to the top of the hood. The plate is held in place by four screws.

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

1. Align mounting holes at base of transition with mounting holes on 1/2" flange located at the top or rear of the hood depending on direction of discharge.
2. Fasten transition to hood using two (2) #8 sheetmetal screws (included with hood).
3. Seal connection between transition and hood with duct tape.
4. Remove tape holding damper closed.

See Figure 1b for overall hood dimensions.

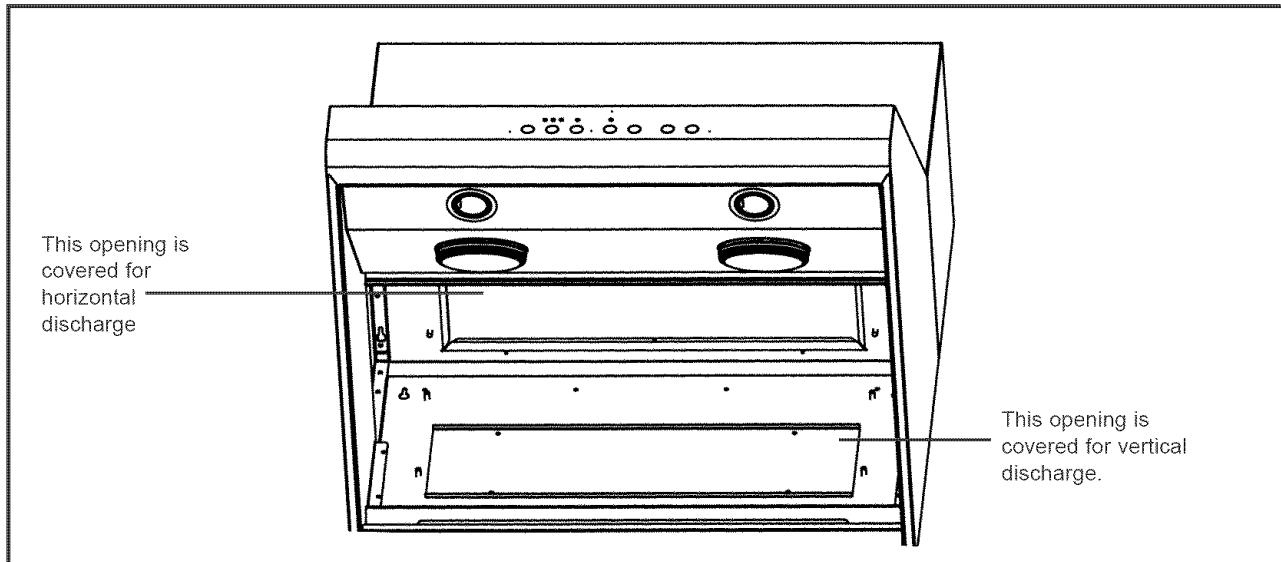


Figure 1a: Discharge Direction

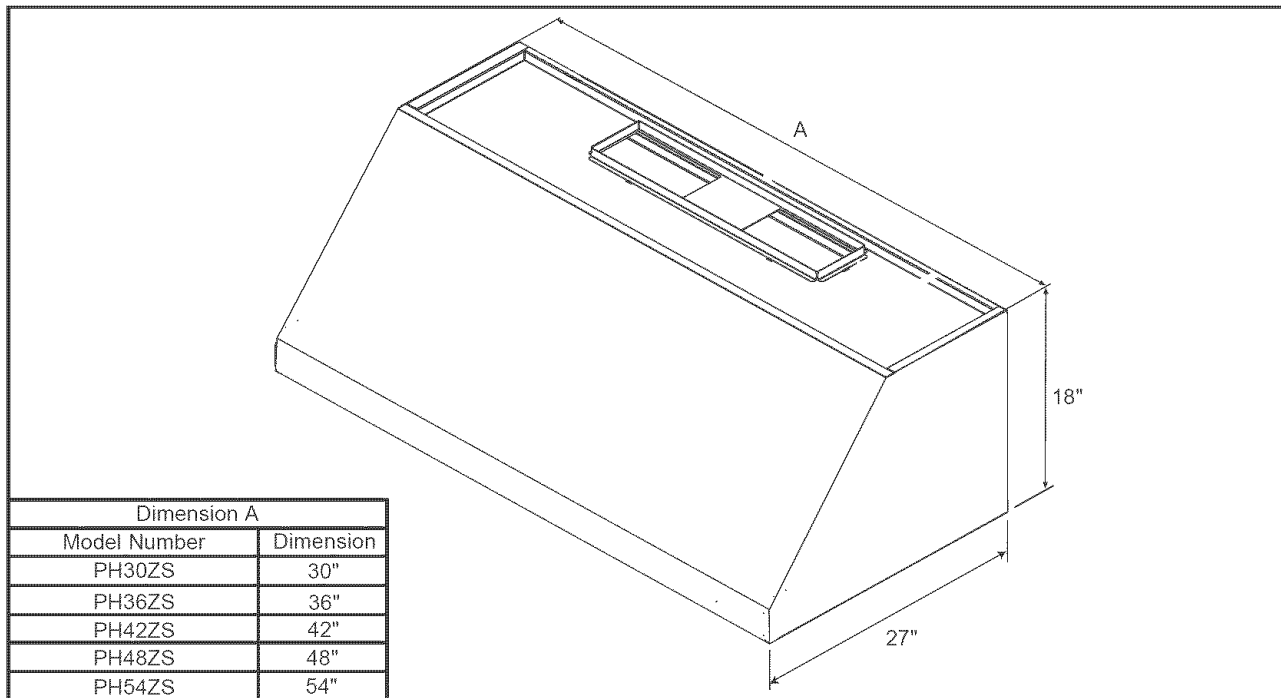


Figure 1b: Overall Dimensions

Note: Read Remote Control Installation Instructions before continuing if using this accessory.

Wall Mount Installation

The hood installation height is the user's preference. Figure 2 shows a typical installation of the hood with two duct covers. Accessory 6" and/or 12" duct covers are used to fill the space between the hood and ceiling.

The installation height shown in Figure 2 is 36 inches. One 6" duct cover has been used in this installation. Add or subtract duct covers as appropriate to accommodate ceiling height and desired hood height. The duct cover structure is supported by the hood.

1. After the hood installation height has been determined, draw a horizontal line at a distance above the cooktop equal to the desired hood installation height plus 15.5". This line is the mounting location of the wooden bracket shipped with the hood.
2. Find the centerline of the cooktop. 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 a wooden bracket shipped with the hood. Remove the bracket from the hood by removing two shipping screws. Mark the center line of the bracket.
4. Locate one stud on either side of the cooktop centerline to use for mounting the wooden bracket as shown in Figure 3.
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" deep $\frac{1}{8}$ " tap hole through the wooden bracket, drywall, and into the stud.
7. Use 2 or 3 (#14 x 3") screws to attach the bracket to the wall as shown in Figure 3. For support of longer hoods, use three studs. Countersink the heads to prevent interference with the hood.
8. On the wood bracket mark the locations used to hang the hood according to Figure 4 (next page).
9. Drill a $\frac{1}{8}$ " tap hole through the wooden bracket and drywall. These (#8 x $\frac{5}{8}$ ") screws do not need to go into the studs.
10. Drill a $\frac{1}{16}$ " tap hole for the 2 (#8 x $\frac{5}{8}$ ") screws into the wood bracket leaving $\frac{1}{4}$ " of each screw exposed for hanging the hood.

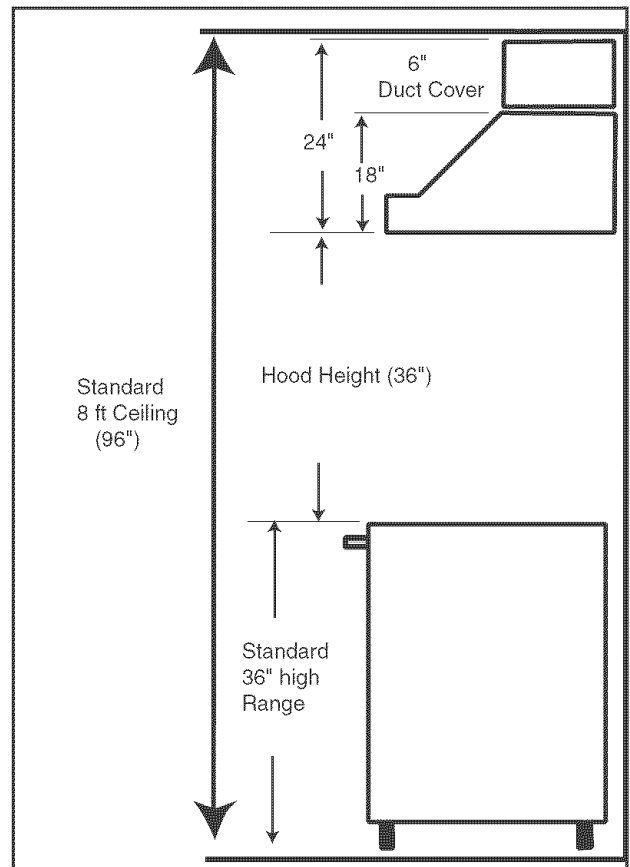


Figure 2

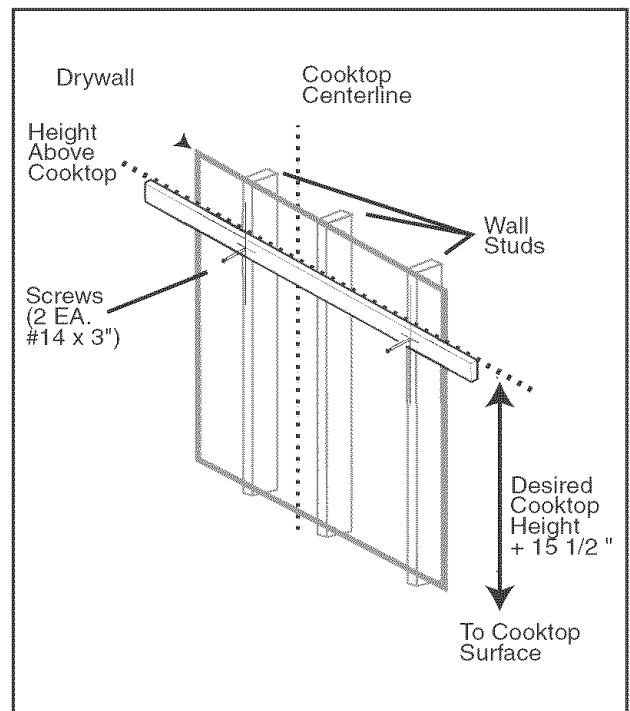


Figure 3

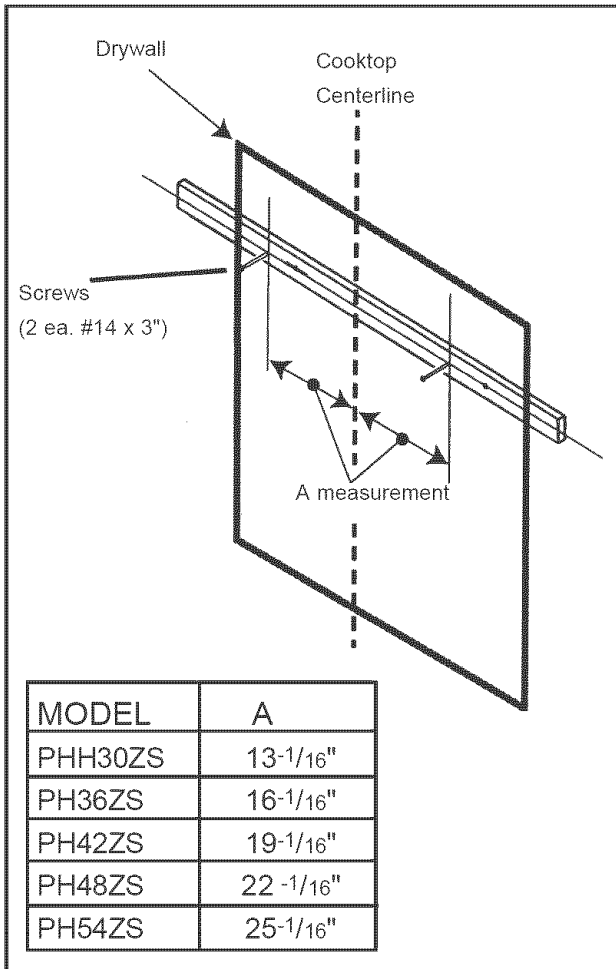


Figure 4

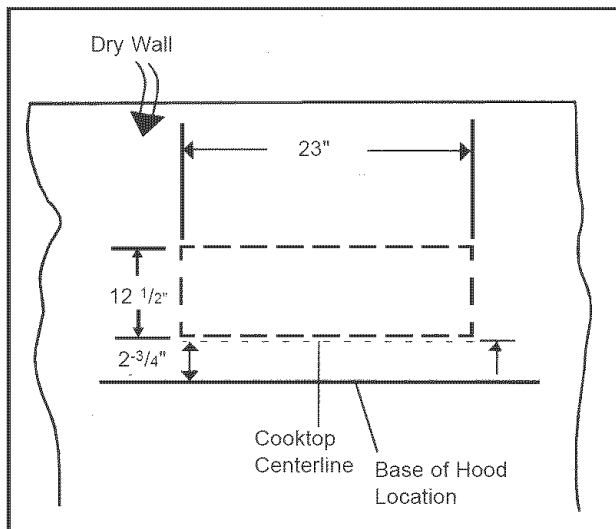


Figure 5

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

11. Discharge Direction: Horizontal discharge requires a wall cutout, as shown in Figure 5, to provide clearance for the transition. The location of the cutout is determined by the hood installation height.

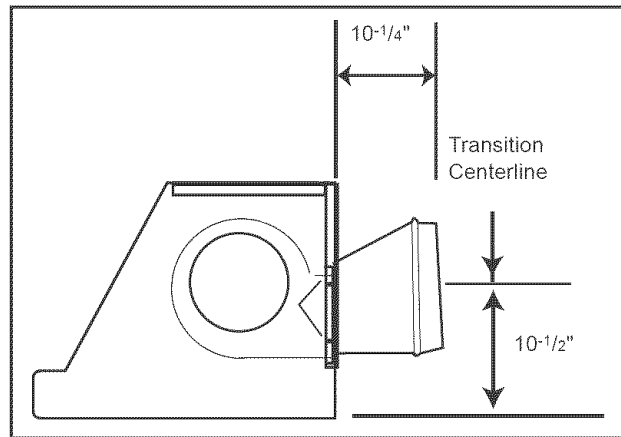


Figure 6

The transition supplied with the hood connects to standard 10-inch round duct. Figure 6 shows the transition connected for horizontal discharge.

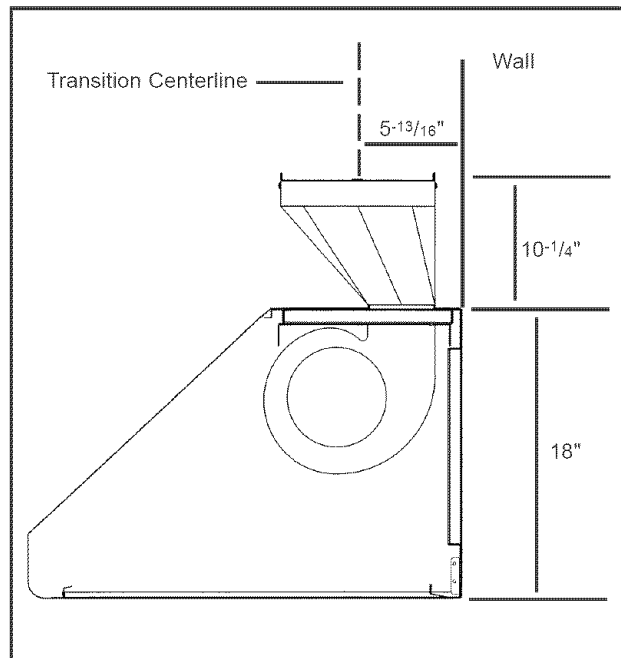


Figure 7

Figure 7 shows the hood configured for vertical discharge. Installations using this type of method require a cutout in the ceiling to accommodate 10" duct and the 1/2" conduit carrying power to the unit.

Duct covers, sold separately, are available to cover the space between the top of the hood and ceiling. (See Page 4).

12. Before hanging hood, install transition per Fig. 6. Fasten transition with 2 screws (#8 x 3/8 sheet metal, supplied) and tape per code. Note: screws must not hinder damper operation.

13. Rest the hood on the screws in the wood bracket. Use the keyholes labeled "I" in Figure 8. Make sure the wood bracket fits into the recess on the back of the hood.

14. Remove knockouts.

15. Tighten the screws in keyholes. Check hood for level and adjust if necessary.

16. From inside the hood drive screws (#8 x 5/8") through holes in hood into wooden bracket. See holes labeled J in Figure 8.

17. Connect additional ducting.

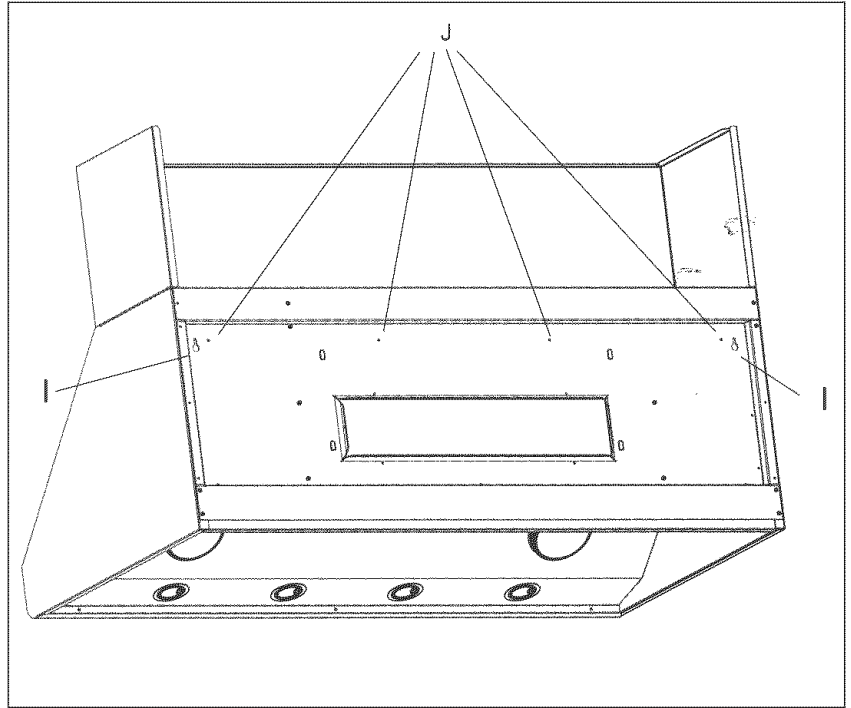


Figure 8

Installation Note: If wall studs are within 8" of the center line, cut stud at an angle to avoid any interference.

Assembly and Installation of the Duct Covers

Optional duct covers shown in Figure 9 may be used to fill the space between the hood and ceiling in wall mount installations. 6" and 12" high duct covers are available and may be ordered separately.

1. If multiple duct covers are used, connect the pieces together using sheetmetal screws provided with duct covers.

2. Attach the duct cover(s) to the hood using sheetmetal screws as shown in Figure 9.

3. From inside of hood, insert screws supplied (#8 x 5/8") through holes L, one on each side and four along the front, into bottom of the cabinet.

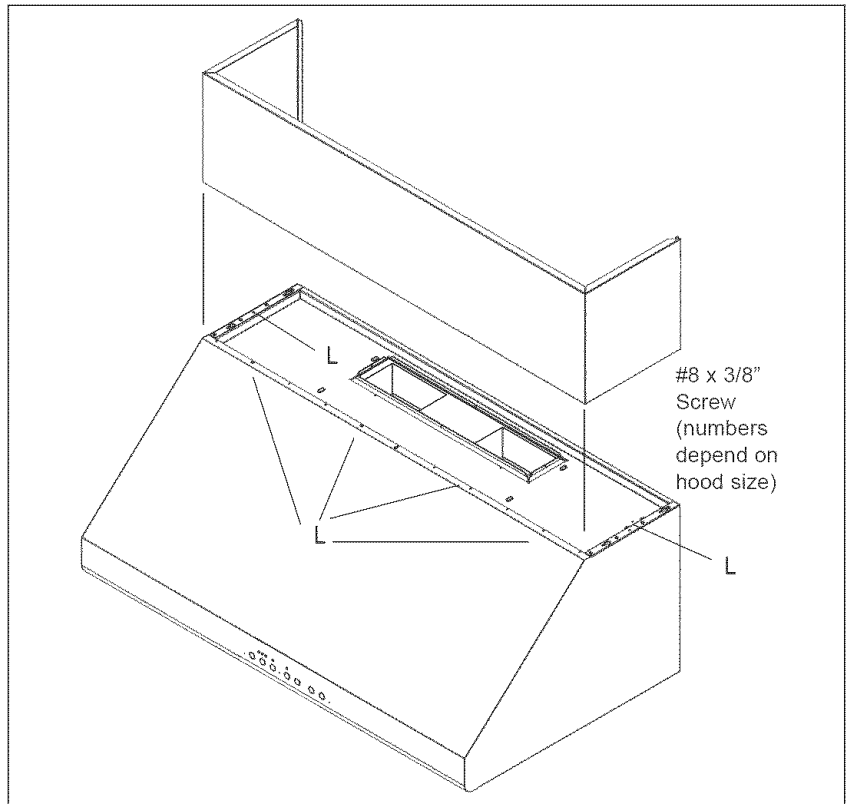


Figure 9

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 10 shows the four screw holes (K) used for mounting the hood to the bottom of the cabinet.

Make sure both knockouts have been removed.

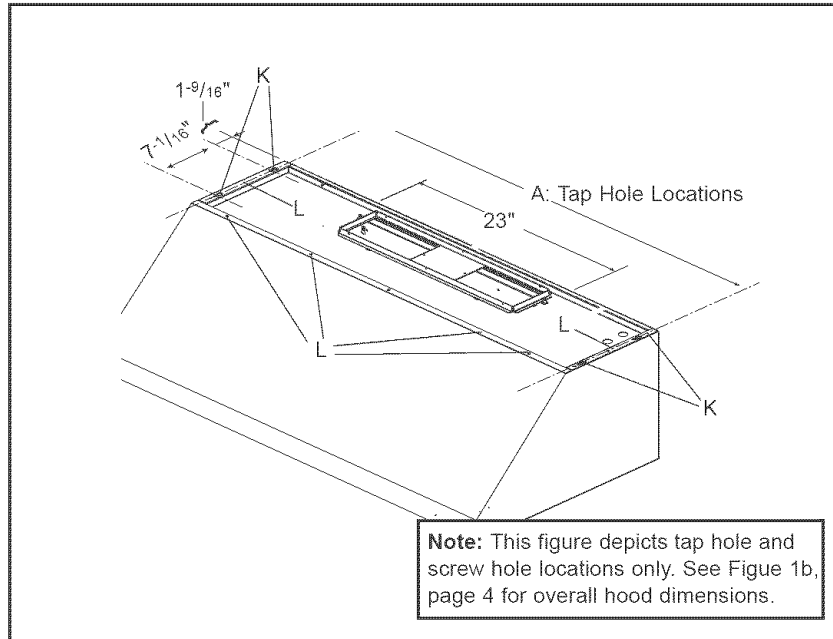


Figure 10: Tap Hole and Screw Hole Locations

1. In the base of the cabinet drill 1/8" tap holes (See dimension A in Figure 10 and in Table). Screw in four #10 x 1" screws (provided with hood) leaving 1/4" exposed).
2. If the hood is installed for vertical discharge, use Figure 11 to create clearance holes for passage of the transition and conduit (See dimension B in Figure 11 and in Table).
3. For horizontal discharge use Figure 5 for the geometry of the cutout required for clearance of the transition.
4. Hang hood from screws and tighten securely.
5. From inside of hood, insert screws supplied. Drill through holes (use #8 x 5/8" screws supplied), one on each side and four along the front, into bottom of the cabinet. See screws holes labelled "L" in Figure 10.

Centerline Hole Dimensions for Figures 10 and 11

Model	A (Fig 10) Tap Holes	B (Fig 11) Conduit Hole
PH30ZS	29-1/16"	13-7/16"
PH36ZS	35-1/16"	16 ⁷ / ₁₆ "
PH42ZS	41-1/16"	19-7/16"
PH48ZS	47-1/16"	22-7/16"
PH54ZS	53-1/16"	25-7/16"

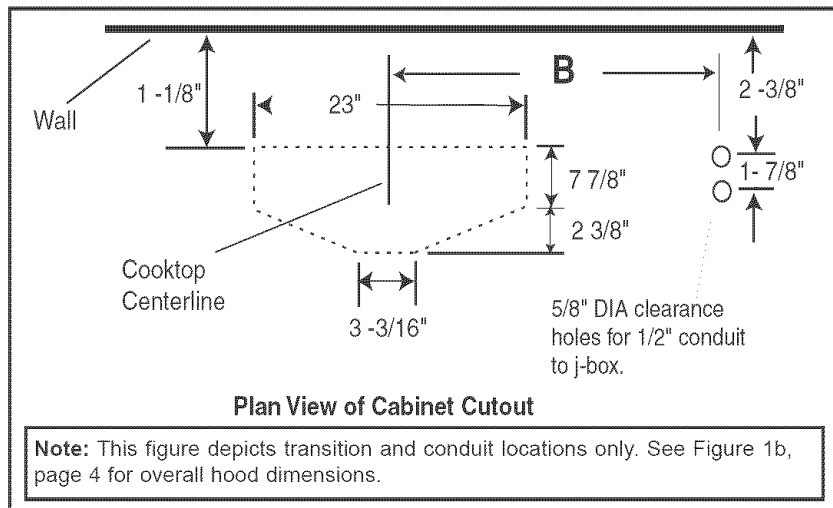


Figure 11: Transition and Conduit Locations

Installing an Integral Blower VTN1000Q

The hood can be installed with a VTN1000Q blower.

Blower preparation

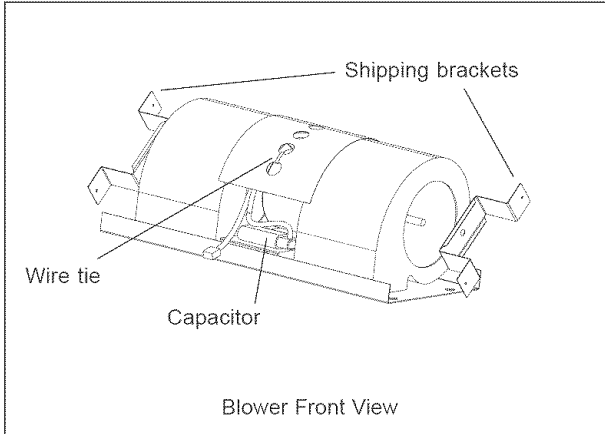


Figure 12a

1. Remove left and right shipping brackets and discard.
2. Cut wire tie shown in Figure 12a. Locate the wire harness with the Molex 6-pin connector. Route wire harness out rear of blower, as shown in figure 12 b. below.
3. Re-attach wire harnesses to capacitor with new wire tie (supplied) in same location in front.

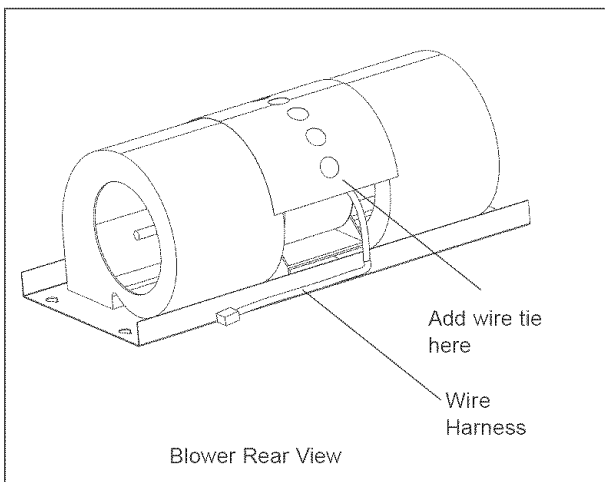


Figure 12b

4. Attach wire harness with Molex 6-pin connector to housing as shown in Figure 12b with wire tie (supplied).

Install blower in hood:

1. The blower is attached to the hood using weld studs provided on the mounting plate.
2. Figure 12c shows the weld studs in location B for horizontal (rear) discharge. Attach four #10-24 nuts to the weld studs. For vertical discharge, attach nuts to studs at the top of the mounting plate.

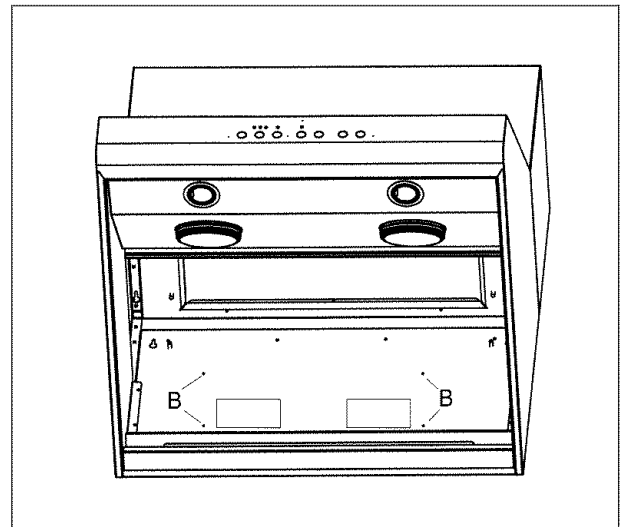


Figure 12c

3. Guide the motor mounting plate over the nuts and tighten to secure the blower to the hood.
4. Attach two additional screws as shown in Figure 12d.

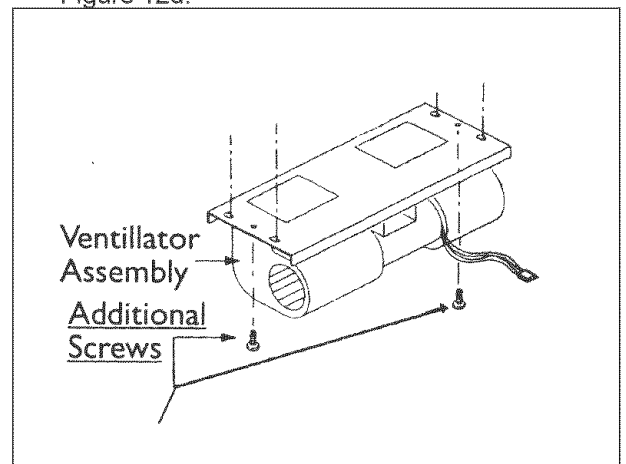


Figure 12d

CAUTION:

Verify that the two additional screws in Figure 12d are installed and properly tightened before continuing.

Wire Routing Instruction

Vertical Discharge

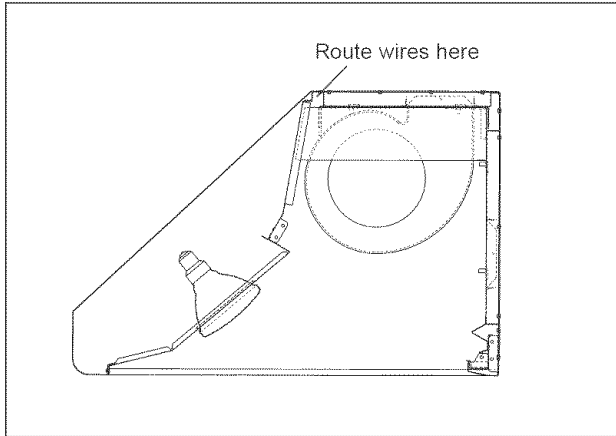


Figure 12e

Horizontal Discharge

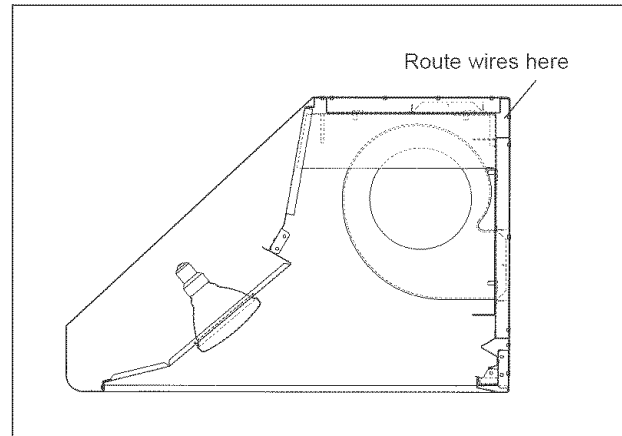


Figure 12g

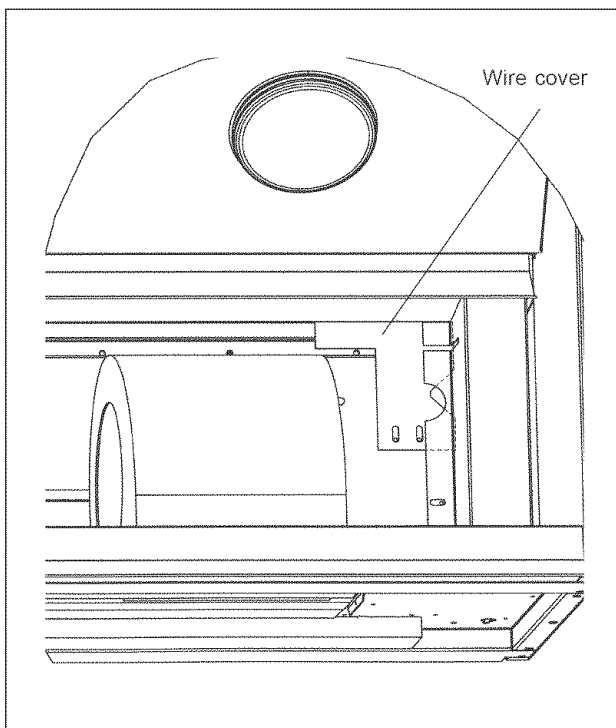


Figure 12f

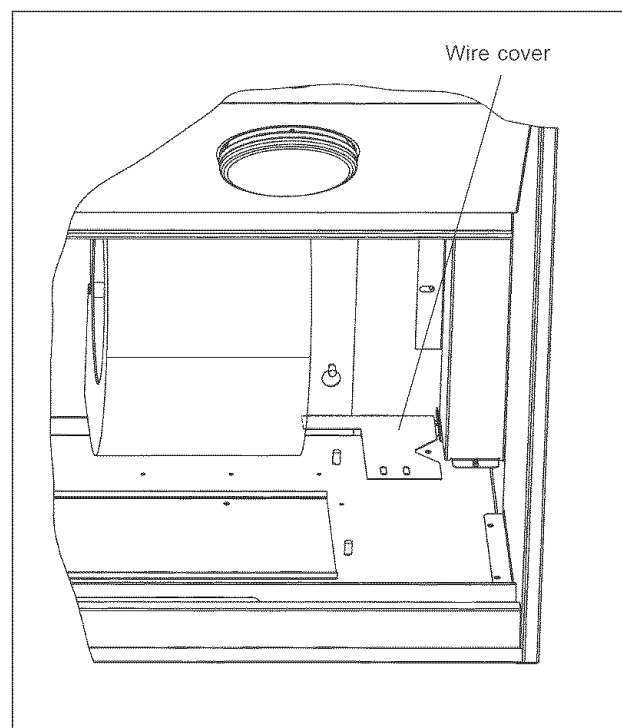


Figure 12h

Install wire cover per Figure 12F. The 30"-wide model does not need a wire cover.

Install wire cover per Figure 12H. The 30"-wide model does not need a wire cover.

Wiring the Hood with an Integral Motor

⚠ WARNING

Turn off electricity at the service panel before wiring the unit. (See Safety Instructions, Page 2).

1. Remove the j-box cover.
2. Connect the VTN1000Q molex plug connector to the connector present inside the hood as shown in Figure 13.
3. Install 1/2" conduit connector in j-box.

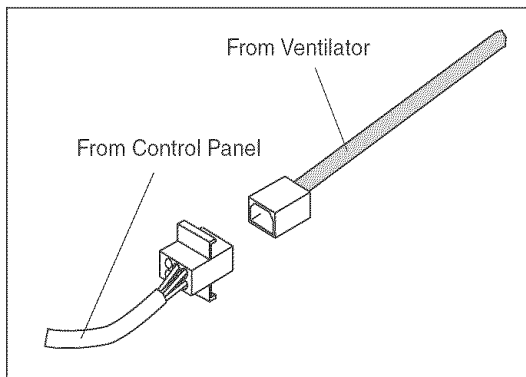


Figure 13

4. Run black, white, and green wires (#12 AWG) in 1/2" conduit from power supply to J-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 chasis. 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 (2) # 18ga wires and maximum of (4) #14ga wires, UL & CSA rated to 600V and 302 deg. F./150 deg. C).
6. Close J-box cover. Check to see that light bulbs are secure in their sockets. Replace filters as described in the Care & Use Manual. Turn power on at service panel. Check operation of the hood.

Remote Blower Installation

The PHZ hood models are designed to work with VTR600R, VTR1000Q, and VTR1400Q remote blowers. For installation instructions see the instructions supplied with the blower unit.

Wiring the Hood with a Remote Blower:

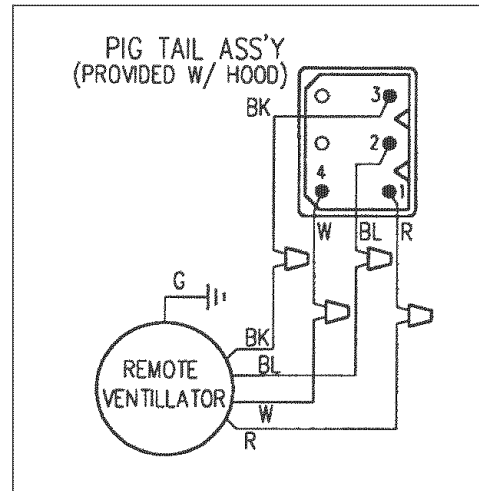


Figure 14

1. Remove the J-box cover.
2. Install 1/2" conduit connectors.
3. Run black, white, and green wires (#12 AWG) in 1/2" conduit from power supply to j-box.
4. 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 (2) # 18ga wires and maximum of (4) #14ga wires, UL & CSA rated to 600V and 302 deg. F./150 deg. C).
5. Connect the "pigtail" to the connector inside the junction box.
6. Run five wires (#14 AWG) in 1/2" conduit from the remote blower to the second conduit connector.
7. Connect the remote ventilator to the pigtail wires (Step 6) as per Figure 14. Connect the remote blower green (ground) wire to the ground screw in the junction box.
8. Close junction box cover. Check that all light bulbs are secure in their sockets. Install filters. Turn power on at service panel, and check lights and blower operation per Care & Use Manual.

We reserve the right to change specifications or design without notice. Some models are certified for use in Canada. Thermador is not responsible for products which are transported from the U.S. for use in Canada. Check with your local Canadian distributor or dealer.

For the most up to date critical dimensions by fax, use your fax handset and call 775-833-3600. Use code # 8030.

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