



**Read and Save These Instructions**  
**All Hoods Must Be Installed By A Qualified Installer**

# **INSTALLATION INSTRUCTIONS**

## **CWEH6-K WALL MOUNT HOOD**

**Read All Instructions Thoroughly Before Beginning Installation**

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

- A. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction. Switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally during installation.**
- B. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.**
- C. Ducted fans must always be vented to the outdoors.**
- D. 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 local code authorities.**
- E. ASHRAE residential ventilation standard 62.2 limits exhaust fans (total) to a maximum of 15 CFM per 100 square feet of occupiable space, unless a back drafting test is performed or make-up air is provided. Consult a local HVAC engineer for make-up air evaluation.**

**WARNING - TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK**

# Vent-A-Hood®

## Ducting Do's and Don'ts

### General Requirements

- Observe local codes regarding special duct requirements and placement of duct against combustibles.
- Using Vent-A-Hood transitions (back page) will ensure proper efficiency.
- Using Vent-A-Hood roof jacks or wall louvers (back page) will ensure proper efficiency.
- Where possible, seal joints with duct tape.
- The hood must be ducted to the outdoors without restrictions.

### Blower Requirements

- The K250 blower unit requires 7" round duct or equivalent (32.5 square inches).

Blower	Duct Dize	Sq. Inch Area	Vent-A-Hood Transition
K250	3 1/4" x 10" or equivalent	32.5 sq. in.	VP521 (Optional)

### Ducting Requirements

- NEVER reduce the duct size.
- Do not use flexible or corrugated duct. This type of duct will restrict airflow and reduce performance.
- Only use smooth, galvanized, metal duct.
- Make the duct run as short and as straight as possible with as few turns as possible.
- Avoid sharp-angled turns. Instead, use smooth, gradual turns such as adjustable elbows or 45 degree angled turns.
- For duct runs over 20 feet, increase the duct diameter by one inch for every ten feet of duct.
- A 90 degree elbow is equal to 5 feet of duct.

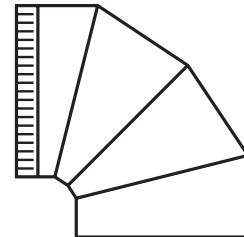
### Termination Requirements

- Airflow must not be restricted at the end of the duct run.
- A wall louver or roof jack is required for each duct run.
- Every wall louver or roof jack must include a gravity damper to prevent back drafts.
- Do not use screen wire or spring-loaded doors on wall louvers or roof jacks.
- Do not terminate venting into an attic or chimney.

YES

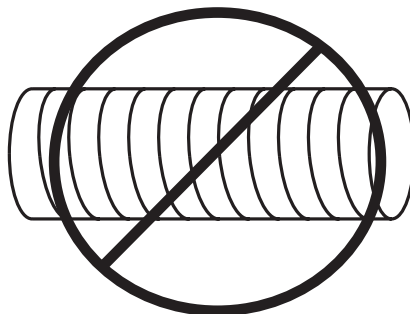


Smooth Duct

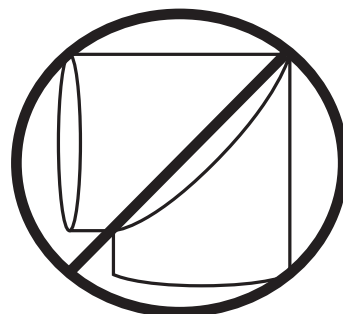


Smooth Gradual Turn

NO



Flexible Duct

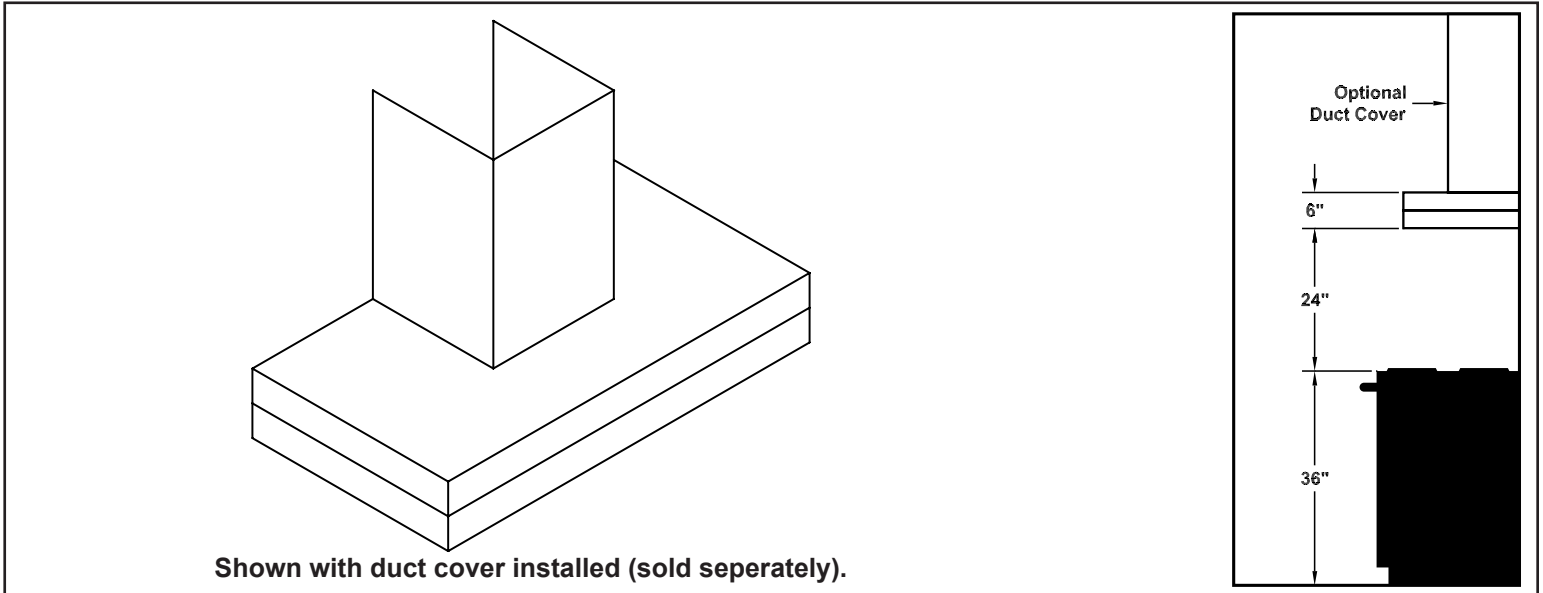


Sharp Angled Turns

# Vent-A-Hood®

## Installation Details

- 1) Read all instructions thoroughly before beginning installation.
- 2) When installing a CWEH6-K wall mount hood, it is recommended that the bottom edge of the hood be located no more than 24" above the cooking surface for optimum performance.



- 3) IF THE HOOD IS TO BE "BACK VENTED", PROCEED DIRECTLY TO STEP 4.

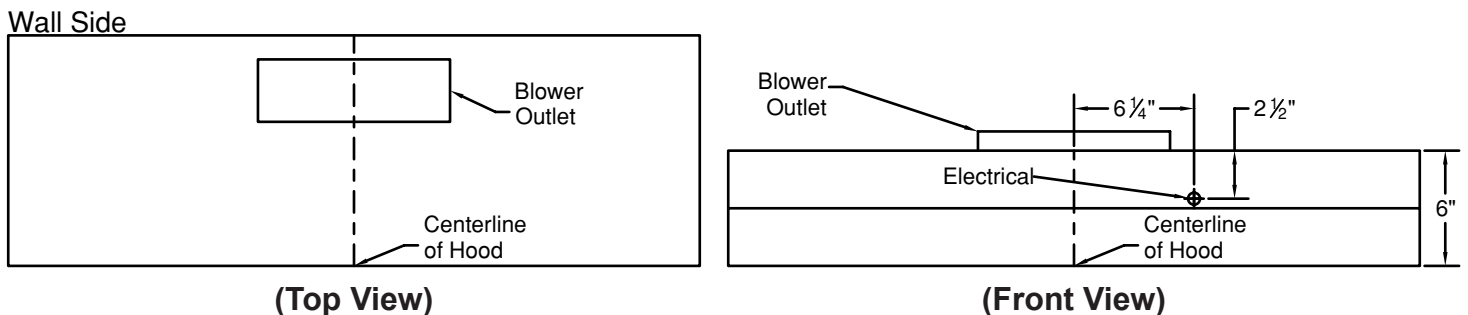
Consult the connection diagrams (below) for further details on exhaust outlet placement.

Install the duct from the outside of the home down to the location of the exhaust outlet on the top of the hood allowing room for the transition (if applicable). If the VP521 is used, cut the duct to reach the transition outlet plus 1". This will allow the transition to engage 1" inside of the duct. One end of the duct must be crimped to fit inside the duct in the ceiling. Insert the non-crimped end over the transition or into the exhaust collar on top of the hood and seal with duct tape.

Use duct tape to seal all joints. A complete listing of available Vent-A-Hood ducting materials is provided on the back page of this instruction sheet.

Transition height: 3-1/4" x 10" duct will connect directly to the exhaust outlet of the hood. Optional VP521 transition to 7" round (sold separately) is 7 1/2" tall.

### Connection Diagram



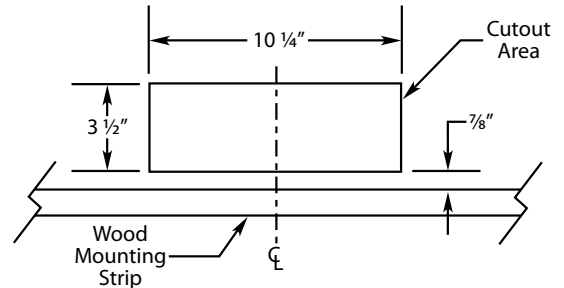
- 4) Remove the hood from its packaging and place the hood, wall side down, on the floor or countertop in front of the wall where it will hang.

# Vent Hood®

## Installation Details Continued

- 5) Remove the duct cover from its packaging. Remove the duct cover front panel. The panel is held in place with four snaps at the corners and at least one snap on the left and right. Begin by pulling the panel away at one corner. Work around the duct cover disengaging one snap at a time until all the snaps are loose. Beware of sharp corners and edges. Use caution to prevent bending, scratching or dropping the cover. Remove the duct cover mounting screws from the bottom of the duct cover. Place the duct cover, wall side down, on the top of the hood and secure it to the hood using the mounting screws previously removed. Lift the hood and duct cover assembly to the location on the wall where it will be installed and lightly mark the wall with a short, horizontal mark along the bottom edge of the hood.
- 6) Remove the hood and duct cover assembly from the wall. On the back side of the hood, measure the distance between the bottom edge of the hood and the top edge of the wood mounting strip. Measure this distance above the horizontal line made in Step 5 and lightly mark the wall with a level, horizontal line. Measure where the center (left to right) of the hood will be and mark the upper horizontal line on the wall with a short vertical centerline.
- 7) Remove the screws inside the top of the back of the hood that retain the wood strip that is recessed in the mounting channel. Remove the wood mounting strip from the back of the hood and place the top edge of the strip on the upper, level horizontal line on the wall. Referencing the vertical centerline from Step 6, place the mounting strip so it is centered (left to right) on the wall in the space where the hood will be located. Using proper hardware, attach the mounting strip to at least two wall studs. Note: drill pilot holes in the wood strip to prevent splitting.
- 8) **FOR VP559 BACK VENTING APPLICATIONS ONLY. IF NOT BACK VENTING, PROCEED DIRECTLY TO STEP 9.**

**VP559 Back Venting Cut Out Diagram**



**Note:** Wall studs may interfere with back venting installations. Additional framing may be required. It is necessary to cut a duct access hole in the wall prior to installing the hood.

Starting 7/8" above the top of the mounting strip, cut a hole 3-1/2" high x 10-1/4" wide centered on the hood centerline (see diagram at right). Install the duct from the outside of the home to the opening in the wall.

- 9) Hang the hood on the mounting strip by aligning the channel at the top of the back of the hood over the wood mounting strip on the wall. While holding the hood in place, mark locations on the mounting strip through the two mounting holes in the channel at the top of the hood. Remove the hood and drill 3/32" pilot holes at the center of the marks in the wood strip to prevent splitting.

**Warning: Make sure power is off and locked at the service disconnecting means on the service panel during installation.**

- 10) Install an appropriate 1/2" UL listed electrical wire clamp through the motor box electrical opening on the rear of the hood. Install electrical wiring from the service panel to the hood location. Consult the connection diagrams (on previous page) for further details on electrical placement.

Model	Volts	Amps	Hz	RPM	CFM SP@0.0"	Equivalent CFM*	CFM SP@0.1"	CFM SP@0.2"	CFM SP@0.3"	Minimum Round Duct Size	Sones#
K250 (Top Vent)	115	3.5	60	1550	250	375	223	220	190	7" (38 in. <sup>2</sup> )	7.4

\* Because the Power Lung® blower uses centrifugal filtration rather than conventional baffle or mesh filters, the Power Lung® blower can handle cooking equipment with higher cubic feet per minute (CFM) requirements and can deliver equivalent CFM much more efficiently than other than other filtration systems. When comparing the Power Lung® with other blower units made by other manufacturers, use the "Equivalent CFM".  
 † Ratings in accordance with the Standard Test Code by the Energy Systems Laboratory of the Texas Engineering Experiment Station.

- 11) **FOR BACK VENTING APPLICATIONS ONLY. IF NOT BACK VENTING, PROCEED DIRECTLY TO STEP 12.**

Place the VP559 elbow on the top of the hood. The elbow should be placed with the short end on the inside the collar of the exhaust outlet. Use duct tape to seal joints.

Insert the electrical wire from the service panel into the electrical wire clamp on the rear of the hood. Tighten the wire clamp. While securing the slack in the electrical wire, lift the hood and duct cover assembly up to the wall and hang the hood on the mounting strip, taking care to properly align the duct connection between the elbow and the duct in the wall.

# Vent-A-Hood®

## Installation Details Continued

**Warning: Do not operate hood without proper ground connection.**

Secure the hood to the mounting strip by installing the screws (previously removed from the strip in Step 7) into the pilot holes drilled in Step 9.

**SKIP STEP 12. PROCEED DIRECTLY TO STEP 13.**

- 12) Insert the electrical wire from the service panel into the electrical wire clamp on the rear of the hood. Tighten the wire clamp. While securing the slack in the wire, lift the hood up to the wall and hang the hood on the mounting strip, taking care to properly align the duct connection between the hood and the duct in the ceiling.

**Warning: Do not operate hood without proper ground connection.**

Secure the hood to the mounting strip by installing the screws (previously removed from the strip in Step 7) into the pilot holes drilled in Step 9.

- 13) From inside the hood, using UL listed wire nuts, attach the “neutral” wire to the white lead, the “hot” wire to the black lead, and the ground wire to the green lead.
- 14) Using appropriate mounting hardware, attach the duct cover to at least one wall stud through the mounting strap in the top of the back of the duct cover.
- 15) Replace the duct cover front panel by aligning the snaps and pressing each snap into position.
- 16) Refer to the Owner Maintenance Guide Operating Instructions for proper hood operation. Test all blower and light functions to ensure they are operating properly.

# VENTING

# Vent A Hood®

# ACCESSORIES

**WALL LOUVER**

MODEL	DIM
VP526	6" Round
VP527	7" Round
VP528	8" Round

**WALL LOUVER**

MODEL	DIM
VP554	10" Round

**WALL LOUVER**

MODEL	DIM
VP555	12" Round

**RECTANGULAR WALL LOUVER**

MODEL	DIM
VP538	6" x 8 1/2"
VP560	3 1/4" x 10"

**LOW PROFILE ROOF JACK (MAXIMUM 4/12 PITCH)**

MODEL	DIM
VP539	6" Round
VP540	7" Round
VP541	8" Round

**LOW PROFILE ROOF JACK (MAXIMUM 4/12 PITCH)**

MODEL	DIM
VP552	10" Round
VP553	12" Round

**LOW PROFILE ROOF JACK (MINIMUM 4/12 PITCH)**

MODEL	DIM
VP539-HP	6" Round
VP540-HP	7" Round
VP541-HP	8" Round

**LOW PROFILE ROOF JACK (MINIMUM 4/12 PITCH)**

MODEL	DIM
VP552-HP	10" Round
VP553-HP	12" Round

**ADJUSTABLE ELBOW**

MODEL	DIM
VP513	6" Round
VP514	7" Round
VP515	8" Round

**BACK/SIDE VENT ELBOW**

MODEL	DIM
VP561	8" to 6" x 8 1/2"

**3 1/4" x 10" BACK VENT ELBOW**

MODEL	DIM
VP559	3 1/4" x 10"

**3 1/4" x 10" TO 7" TRANSITION**

MODEL	DIM
VP521	3 1/4" x 10" to 7"

**MULTI-BLOWER TRANSITION**

MODEL	DIM
VP562	6" & 8" to 10"
VP563	8" & 8" to 12"

**M1 200 STANDARD TRANSITION**

MODEL	DIM
VP566	21" x 8" to 10"

**STANDARD ISLAND TRANSITION**

MODEL	DIM
VP565	5" x 16" to 8"

**CLUSTER BLOWER TRANSITION**

MODEL	DIM
VP564	8" & 8" to 12"

**OFFSET L & R TRANSITION FOR ISLAND BLOWERS**

MODEL	DIM
VP542	Top Left
VP543	Top Right

**SIDE VENT TRANSITION L & R FOR ISLAND BLOWERS**

MODEL	DIM
VP544	Left Side
VP545	Right Side

**OFFSET KIT - ROUND**

MODEL	DIM
VP529	6" Rnd to 7" Rnd

**OFFSET KIT - RECTANGULAR**

MODEL	DIM
VP550	6" Rnd to 3 1/4" x 10"

**"Y" TRANSITION**

MODEL	DIM
VP517	8" & 8" to 12"
VP518	6" & 8" to 12"
VP551	6" & 8" to 10"

**ROUND DUCT PIPE**

MODEL	DIM
VP500	6" Round
VP501	7" Round
VP502	8" Round

**3 1/4" RECTANGULAR DUCT PIPE**

MODEL	DIM
VP504	3 1/4" x 10"
VP505	3 1/4" x 12"
VP506	3 1/4" x 16"

**6" RECTANGULAR DUCT PIPE**

MODEL	DIM
VP507	6" x 8 1/2"