



Undercabinet Range Hood

Model no: EMPV-30RH01
EMPV-36RH02



Installation Guide and Users Manual



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IMPORTANT SAFETY INSTRUCTIONS

Please read all instructions carefully before proceeding further to prevent the risk of fire, electric shock, personal injury or damage to the range hood. This manual provides a general insight on the installation and may not include solutions for all possible issues that may occur.

Important: Read and save these instructions.

In case of this manual destroyed or lost, please visit <https://www.empava.com> and download a digital version.

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY, PLEASE READ THE FOLLOWING CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE RANGE HOOD:

- Always disconnect, lock and tag the power source before installing or servicing the range hood. Failure to do so may result in fire, shock or serious injury.
- Installation and electrical wiring must be done by qualified technician(s) in accordance with all applicable codes and standards, including fire-rated construction.
- When cutting or drilling into walls or ceilings, please be careful not to damage any electrical wirings and other hidden utilities.
- Verify and ensure the rated voltage and frequency of the range hood is in compliance with the nearby power source.
- Always unplug the range hood from the power source before cleaning it.
- Use the range hood only as directed in this manual. Do not use it to vent hazardous or explosive materials or vapors.
- Clean the baffle filters regularly to prevent it become blocked or clogged. Good air flow is essential for the range hood to work properly.
- Do not install, repair or replace any parts of the range hood unless you are instructed to do so by

the manufacturer.

- Do not tamper with or modify the PCB.
- This range hood model requires a duct to vent the air outside. Do not vent the air into spaces within walls, ceilings, attics, crawl spaces or garages.

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

- Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- Always turn the hood ON when cooking at high heat or when flambeing food (i.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambé).
- Clean ventilating fans frequently. Grease should not be allowed to accumulate on the fan or filter.
- Use proper pan sizes. Always use cookware appropriate for the size of the surface element.

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE:

- SMOTHER FLAMES with a close-fitting lid, cookie sheet or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
- NEVER PICK UP A FLAMING PAN - you may be burned.
- DO NOT USE WATER, including wet dish cloths or towels - a violent steam explosion may result.
- Use a fire extinguisher ONLY if:
 - You have a Class ABC extinguisher, and you already know how to operate it.
 - The fire is small and contained in the area where it started.
 - The fire department is being called.
 - You can fight the fire with your back to an exit.

IMPORTANT SAFETY INSTRUCTIONS

TO REDUCE THE RISK OF PERSONAL INJURY IN THE EVENT OF A GAS LEAK:

- Extinguish any open flame.
- DO NOT turn on the lights or any type of appliance.
- Open all doors and windows to disperse the gas.
If you still smell the gas, call the gas company, fire department, or 911 immediately.

Read and Save These Instructions

INSTALLATION PREPARATIONS

DUCT VENTING AND ACCESSORIES (NOT INCLUDED):

- For new installation or your old range hood doesn't have an exhaust duct, prepare to cut the openings through the bottom of the cabinet, wall, top of the cabinet or ceiling, depending on the mounting type. An 8" round semi-rigid aluminum duct is included. If the included duct is not long enough, please purchase additional ducts to extend and reach to the existing duct connection.
- If the existing exhaust duct size is not 8" in diameter, please purchase a converter / reducer / adapter / elbow.
- Damper is not included. Due to the physical construction of the damper, it is not recommended to be installed right on top of the range hood as it will generate noise when the shutters flip. To reduce the noise level, install the damper close to the end of the duct near the roof or side wall. If the roof cap or side wall cap already has a damper, additional individual damper is not needed.

POSSIBLE TOOLS NEEDED:

- Jig Saw or Reciprocating Saw;
- Screwdrivers or Power Drill;
- Level;
- Measuring Tape;
- Knife;
- Duct / Foil Tape;
- Screws;
- Marker / Pencil.

2 PEOPLE ARE REQUIRED FOR THE INSTALLATION.

Venting Requirements:

- This range hood requires a venting system leading to outdoors.
- The venting system must not end in an enclosed area indoors.
- Use metal vent only. Rigid metal vent is recommended. Semi-rigid aluminum vent is also acceptable for easy connection. Plastic vent is not recommended.
- Always keep the duct clean to ensure proper airflow.

For the most efficient and quiet operation:

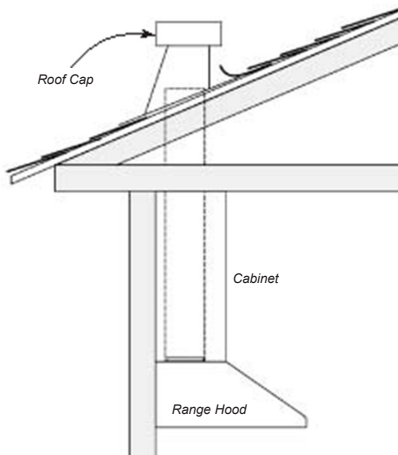
- The recommended mounting height is between a minimum of 24" and a maximum of 30" above the cooking surface to the bottom of the hood.
- It is recommended to have the venting system go vertically from the range hood to the roof using an 8" or bigger round metal / aluminum vent duct. The vent duct is not included and must be purchased separately.
- Regardless the length of the vent duct, its size should be uniform.
- Use no more than three 90° elbows.
- Make sure there is a minimum of 24" of straight vent between the elbows if more than 1 elbow is used.
- Do not install 2 elbows together.
- The length of the venting system and the number of elbows should be kept to a minimum to provide efficient performance.
- The venting system should have a damper. The damper should be installed in the duct close to the roof or wall cap. Installing the damper directly on top of the range hood is not recommended due to the noise it generates.
- Use silver tap or duct tap to seal all joints in the venting system.
- Use caulking silicone to seal exterior wall or roof opening around the cap.

INSTALLATION PREPARATIONS

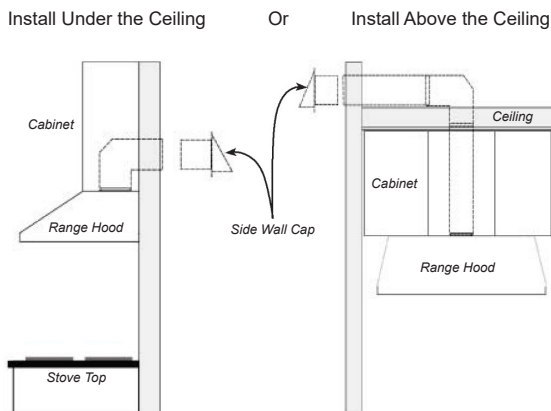
Venting System Setup:

- This range hood is 8" top venting through the roof or wall.
- Always use 8" round rigid or semi-rigid type metal/aluminum ducts to maximize airflow.
- Observe and determine the location for the venting route from the hood to the outdoors.
- A straight, short vent run will allow the hood to perform more efficiently.
- Fasten all connections with sheet metal screws and tape all joints with certified Silver Tape or Duct Tape.
- Use caulking to seal the roof or wall opening around the cap.

Vertical Venting Roof Exhaust

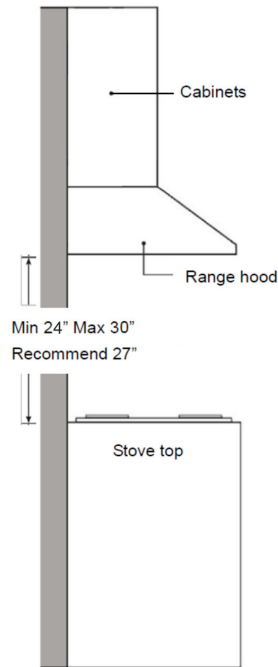


Horizontal Venting Wall Exhaust



Measure and estimate the following figures before installation:

- The distance between the countertop / stove to the bottom of the range hood.
- The height of hood and duct.



IMPORTANT!

- Use the **Duct Run Calculation Chart** to calculate the total available duct run when using elbows, transitions and caps.
- Always keep the number of transitions and turns minimum.
- If long duct run is needed, increase the duct size from 8" to 9".
- If a reducer is needed, use a long reducer instead of a pancake reducer and install it as far away from the range hood as possible. Reducing the duct size will restrict and decrease the speed of the airflow and hence lower the range hood's performance.
- If transitions or turns are needed, install them as far away from the range hood as possible and keep the distance between the 2 as far apart as possible.

INSTALLATION PREPARATIONS

- The minimum mounting height should be no less than 24" and the maximum mounting height should be no more than 30".
- Also refer to the owner's manual of the stove top for the height clearance requirement and the recommended mounting height above the range.
- Round: 8" minimum.

Note

- It is important to install the range hood at the proper mounting height. Hoods mounted too low could result in heat damage and fire hazard while hoods mounted too high will be out of reach and hence reduce its performance and efficiency.

Minimum Duct Size:

Duct Run Calculation Chart

Recommended Maximum Straight Duct Run		8" round duct		50 ft
Vent Piece Deduction		Quantity Used		
Each 90° elbow used	9 ft	x ()	= ()	ft
Each 45° elbow used	5 ft	x ()	= ()	ft
Side wall cap with damper	0 ft	x ()	= ()	ft
Roof cap	0 ft	x ()	= ()	ft
Total Vent Piece Deduction			= ()	ft

Recommended Maximum Straight Duct Run		Total Vent Piece Deduction		Total Available Duct Run
50 ft	-	() ft	=	() ft

Example:

One roof cap, two 90° elbow, and one 45° elbow used: $0 \text{ ft} + 9 \text{ ft} \times 2 + 5 \text{ ft} = 23 \text{ ft}$ used.

Total Available Duct Run = $50 \text{ ft} - 23 \text{ ft} = 27 \text{ ft}$.

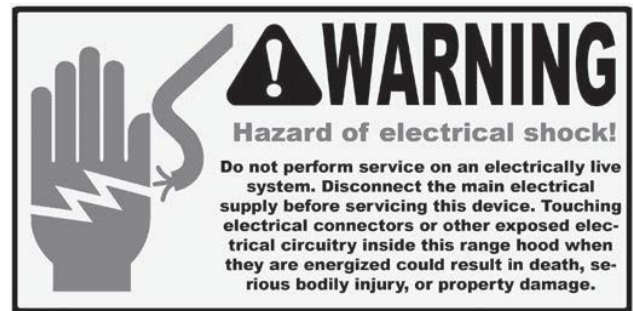
INSTALLATION PREPARATIONS

IMPORTANT!

Observe all governing codes and ordinances.

It is the customer's responsibility:

- To contact a qualified electrical installer;
- To ensure that the electrical installation is in compliance with applicable codes and standards.



Electrical Requirements:

- A 120V, 60Hz., AC only, 15A fused electrical circuit is required.
- Wire sizes and connections must conform with the power rating of the range hood and all applicable codes and standards.
- DO NOT have a fuse in the neutral or ground circuit.
- The 3-prong outlet should be grounded. If the power cord plug is not used, the power cord's green wire should be connected to ground. Check with a qualified electrician if you are not sure that the range hood is properly grounded.
- DO NOT ground to a gas pipe.
- The range hood must be connected with copper wire/plug only.
- The range hood should be connected directly to the fused disconnect box (or circuit breaker) through flexible armored or non-metallic sheathed copper cable. ETL listed strain relief must be provided at each end of the power supply cable.

INSTALLATION

INSTALLATION INSTRUCTIONS

CAUTION!

Wear gloves to protect against sharp edge.

IMPORTANT!

PLEASE FOLLOW THESE INSTRUCTIONS TO TEST THE RANGE HOOD BEFORE INSTALLATION FOR ANY DEFECTS OR SHIPPING DAMAGE:

- Remove the range hood and accessories from the package carefully.
- Place the Hood Unit and the Blower Unit on a flat stable surface, remove the baffle filter and check for any dent or damage on the range hood body.
- Remove the loosen parts if there's any.
- Plug the range hood into a 120V AC power source. Touch the Speed Selection (-) or (+) button to turn it on.
- Check each speed variation and pay attention to the noise level to make sure there isn't any unusual noise besides it coming from the wind blowing. Press the Light Button to check the lights.
- Verify all functions, as instructed in Page 12, are operational.
- Refer to Range Hood Troubleshooting in Page 14 for general issues and solutions.
- The white protective film on the baffle filter must be removed before using the range hood.
- If the range hood you receive is damaged or defective, please contact the seller immediately. Do not try to install and use the damaged or defective unit.

IMPORTANT!

TO AVOID DAMAGE TO THE RANGE HOOD, DO NOT LET DEBRIS ENTER THE VENT OPENING.

CAUTION!

IF MOVING THE COOKING RANGE IS

NECESSARY TO INSTALL THE RANGE HOOD:

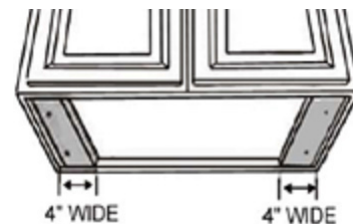
- For electric ranges, unplug the power first before moving it.
- For gas ranges, shut off the gas valve before moving it.

Observe and prepare the location

- Determine the location for the range hood. Refer to instructions in Page 7 for clearance guidance.
- Determine which venting method to use: roof or wall.
- Purchase any necessary accessories, such as duct, elbow, reducer, damper, duct tape, screws etc., from the hardware store.
- Use a stud finder to locate and mark the studs inside the wall.
- Before making cutouts, make sure there is proper clearance within the ceiling or wall for the exhaust vent.
- Measure the top vent, speed control cord and the power cord positions, cut the openings (slightly larger for easy access) for hood exhaust, speed control cord and power cord under the cabinet.



- For installing under the cabinet with recessed bottom, attach a 4-inch wide wood filler strip (not provided) on each side.



INSTALLATION

Installing the Range Hood

The following steps requires 2 or more people:

- Draw the power cord through the cabinet access opening and center the range hood beneath the cabinet.
- From inside of the range hood, install a screw into the exact center of each hole.
- Tighten all screws until the range hood is securely mounted to the bottom of the cabinet.
- Release the range hood.

CAUTION

Make sure the range hood is securely mounted before releasing.

- For a more secure installation, install additional screws into the pre-drilled holes on the backplate of the range hood to secure it to the studs or lumbers. If the pre-drilled holes don't align with the studs or lumbers, drill new holes on the backplate instead.

Connecting the Vent System

- Use an 8" round metal duct (or semi-rigid aluminum duct, follow the local building codes) to connect the top exhaust on the Range Hood to the Roof / Wall Cap.
- Use foil tape or duct tape to seal all connections.

Electrical Connection

- This range hood comes with a power cord with a 3-prong plug. Connect the power cord to a designated grounded standard 110V outlet.

WARNING

Electrical Shock Hazard

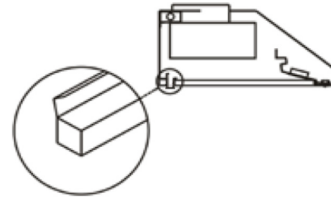
Disconnect power before servicing

- In case of a direct connection to the house wiring is preferred, do the following:

- Disconnect the power.
- Cut off the plug from the power cord.
- Connect the wires from the power cord to the wires from the house wiring using UL listed wire connectors.
- Store the excess wires in the wiring box.
- Reconnect the power.

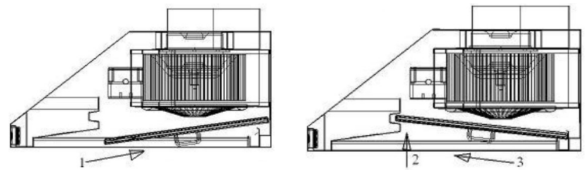
Installing the Oil Collector

- Locate the recess support in the bottom, near the rear of the range hood.
- Fit the oil tunnel / container into the recess support.



Installing the Baffle Filters

- Peel off the protective cover from the baffle filters if there's any.
- Align the baffle filter horizontally with the correct front and back direction.
- Raise the back end of the baffle filter so that the back end is higher than the front end.
- Move the baffle filter towards the bottom of the range hood until it reaches the backplate.
- Push up the front end of the baffle filter while keeping the back end stationary.
- Slide the baffle filter towards the front end until it fits into the slot behind the LCD display.



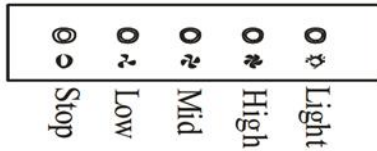
- Repeat these steps to install the rest of the baffle filters.

Completing the Installation

Turn blower ON in the control panel. Check all lights and fan operations.

Range Hood Use

Range Hood Control Panel



- Push stop button, and the motor will stop
- Push the Low button, the buzzer will buzz once and the motor will run at low speed.
- Push the Mid button, the buzzer will buzz once and the motor will run at mid speed.
- Push the High button, the buzzer will buzz once and the motor will run at high speed.
- Push the light button and two lights will on. Push it again and the light will turn off.

WARNING

Read all instructions and warnings before using the hood.

- **DO NOT** use the hood when there are no safety grills and filters.
- **NEVER** dispose cigarette ashes, ignitable substances, or any foreign objects into blowers.
- **NEVER** leave the cooking appliances unattended. When frying, the oil in the pan can easily overheat and catch on 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.

Range Hood Care

easily overheat and catch on 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

WARNING

- To reduce the risk of electrical shock, DO NOT clean the hood while it's operating.
- Never put your hands into the area housing the fan when the fan is operating.

Cleaning the Exterior Surfaces:

IMPORTANT

To avoid damage to the exterior surfaces:

- DO NOT use corrosive or abrasive detergent.
- DO NOT use steel wool, scoring pad or steel brushes. Use a paper towel or soft cloth or nonabrasive sponge instead.
- DO NOT use salt solutions, disinfectants, bleaches or cleaning compound that contains harmful chemicals.

Cleaning Method:

- Noncorrosive or nonabrasive liquid detergent soap or all-purpose liquid cleanser.
- Wipe the surfaces with a damp paper towel or soft cloth or nonabrasive sponge.
- Rinse with clean water.
- Wipe dry with dry towel or cloth.

Note

- The nonabrasive stainless steel polisher can be applied when done cleaning to retain the stainless luster and grain.
- Always follow the instruction of the polisher.

Cleaning the Stainless Steel Baffle Filters:

- Pull the spring release handle and remove the filter by pulling it down.
- Wash the filter in the top rack of the dishwasher or with warm soapy solution manually.

- Let the filters dry thoroughly.
- Make sure the spring release handle is toward the front, align and insert the filter.
- Pull the spring release handle and push the filter into position.
- Release the handle.
- Repeat the steps for the remaining filters.

Replacing the Filters:

- Replace the baffle filters immediately should they become worn out due to aging or prolonged usage.

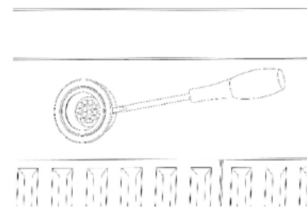
Replacing the LED Lamps:

WARNING

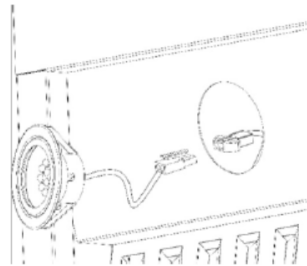
Electrical Shock Hazard

Disconnect power before servicing

- This range hood uses 12V, 3W LED.
- Unplug the range hood, or turn off the breaker.
- Gently pull out the defective LED assembly. Use a flat-head screwdriver if needed.



- Disconnect the wires.



- Connect the new LED assembly.
- Align and snap the new LED assembly into position.
- Plug in the range hood, or turn on the breaker.
- Check if the new LED assembly is working properly.

Range Hood Troubleshooting

Before Calling for Service

Issue	Possible Cause / Solution
The range hood doesn't turn on	<ul style="list-style-type: none"> • Check if the range hood is plugged in. Make sure that all power is turned ON, the fuse isn't blown and all electrical wirings are properly connected.
The range hood turns on but the LED light doesn't	<ul style="list-style-type: none"> • Replace the defective LED assembly. Refer to Range Hood Care section for instructions.
The range hood vibrates when the blower is on	<ul style="list-style-type: none"> • Check and tighten the mounting screws to secure the hood to the cabinet or wall properly.
The blower or fan seems weak	<ul style="list-style-type: none"> • Check that the duct size used is at least 8". Range hood WILL NOT function efficiently with insufficient duct size. For example: 7" duct over 8" top vent and not sealed properly. • Check if the duct is clogged or the damper (half-circular flapper) is not installed correctly or opening properly. A tight mesh on a side wall cap might also cause restriction to the air flow.
The lights work but the blower is not spinning at all or is rattling	<ul style="list-style-type: none"> • The blower might be jammed or scraping the bottom due to shipping damage. • Disconnect the power cord, remove the fan grill and the fan blade, might see the fan blade or/and motor is not in the proper position (offset from the center). Try to fix/adjust it or please contact us immediately.
The hood is not venting out properly	<ul style="list-style-type: none"> • Make sure the distance between the stove top and the bottom of the hood is within recommended 24" and 30" in distance. *Due to different ceiling height configurations, the recommended height may not be applicable. • Reduce the number of elbows and length of duct work. Check if all joints are properly connected, taped and sealed. • Make sure the power is on high speed for heavy cooking.

Warranty

This product is warranted for a limited period of **ONE YEAR Parts and Labor, begins from the date of purchase.**

This limited warranty is applied to the original retail purchaser and valid only for products purchased for home use in the continental United States of America.

This limited warranty is non-transferable and does not extend to the subsequent owners of this product.

Any applicable implied warranties, including the warranty of merchantability, are limited in duration to a period of express warranty as provided herein beginning with the date of original purchase at retail and, no warranties, whether express or implied, shall apply to this product thereafter.

In the event of the product fail to work properly due to a defect in manufacturing materials or workmanship under normal home use, during the warranty period mentioned above, subject to the conditions and limitations set forth below, Awoco will, at our options, either repair or replace any part of our products proven defective by reason of improper materials or workmanship:

- Proof of original retail purchase is required to receive warranty service within the limited warranty period.
- Repair parts or replacement products will be provided by Empava, free of charge, on an exchange basis, and will be either new or reconditioned.
- The consumer is responsible for all shipping costs.

This Limited Warranty Does Not Cover:

- Consumable parts such as light bulbs, stainless steel baffle filters.
- The natural wear of finish, and wear due to improper maintenance, use of corrosive and abrasive cleaning products, pads, and oven cleaner products.

- Chips, dents or cracks on the product caused by transportation and handling.
- Damage of product caused by accidents, pests and vermin, lightning, wind, fire, floods or acts of God.
- Damage of product caused by unauthorized modification or alteration, or if it is used for other than the intended purpose, or any water leakage where the unit was not installed properly.
- Damage of product caused by incorrect electrical wiring, commercial or industrial use, or use of any cleaning products not recommended in this manual.
- Damage of product due to product misuse, abuse, improper installation, unauthorized repair or maintenance.
- Any loss of properties or any costs associated with removing, servicing, installing, or determining the source of problems with our products.

To Receive Warranty Service:

- Contact the seller or distributor from which you purchase the product. Please confirm the terms of your dealer's or distributor's policies prior to contacting. Or contact us directly.
- Provide the product identification information, such as model number and lot number, and proof of original purchase.
- Describe the issue you are experiencing in detail.

Product Support and Additional Information:

If you need assistance using your product or you would like to start the warranty service:

- Contact us at 1-888-682-8882, between 9 AM and 5 PM, Monday - Friday, Pacific Time.
Or
- Contact us at <https://www.empava.com/contact-us>.

