



INSTALLATION INSTRUCTIONS

MILLENNIA™ ISLAND (CEILING MOUNT)

RANGE HOODS

For use with models:

DHI361

DHI421

DHI482

DHI542

DHI602

TABLE OF CONTENTS

Important Safety Instructions	1	Installation Instructions	7-12
Product Specifications	3	Electric Service Installation	7
General Specifications	3	Mounting Bracket Installation	7
Dimensions	3	Assemble the Hood	7
Preparing for Installation	4-6	Hanging the Range Hood	10
Verify the Package Contents	4	Install the Duct Work	10
Planning the Location	5	Final Electrical Installation	11
Electrical Power Supply	5	Final Chimney Assembly	11
Plan the Duct Work Installation	6	Verifying Proper Operation	12
		Installation Checklist	12

BEFORE YOU BEGIN...

IMPORTANT:

- **INSTALLER:** In the interest of safety and to minimize problems, read these installation instructions completely and carefully before you begin the installation process. Leave these installation instructions with the customer.
- **CUSTOMER:** Keep these installation instructions for future reference and the local electrical inspector's use.

If you have questions or problems with installation, contact your Dacor dealer or the Dacor Customer Service Team.

Dacor Customer Service Team

Phone: (800) 793-0093
Web site: www.Dacor.com

All specifications are subject to change without notice. Dacor assumes no liability for changes to specifications.

IMPORTANT SAFETY INSTRUCTIONS

Important Information About Safety Instructions

The **Important Safety Instructions** and warnings in these instructions are not meant to cover all possible problems and conditions that can occur. Use common sense and caution when installing, maintaining or operating this or any other appliance.

Always contact the Dacor Customer Service Team about problems and conditions that you do not understand.

Safety Symbols and Labels

DANGER

Immediate hazards which **WILL** result in severe personal injury or death.

WARNING

Hazards or unsafe practices which **COULD** result in severe personal injury or death.

CAUTION

Hazards or unsafe practices which **COULD** result in minor personal injury or property damage.

DANGER

IMPORTANT: If you smell gas:

- Do not use or light any appliance.
- Do not touch any electrical switch or use any electrical devices, including the telephone, in your building.
- From a neighbor's phone, immediately call the gas supplier. Follow the gas supplier's instructions.
- If you cannot contact the gas supplier, call the fire department.

IMPORTANT: Do not store or use combustible, flammable or explosive vapors and liquids (such as gasoline) on or in the vicinity of this or any other appliance. Also keep items that could explode, such as aerosol cans, away from the cooktop. Do not store flammable or explosive materials in adjacent cabinets or areas (including above and below the cooktop).

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.
- b) 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.

READ AND SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of fire, electric shock, serious injury or death when using your range hood, follow basic safety precautions, including the following:

WARNING

1. Do not install or operate this hood if it has been damaged, dropped, has damaged electrical conduit or wires or is not working properly. If the product is damaged when received, immediately contact the dealer or builder.
2. Use this range hood only for its intended purpose as outlined in the use and care manual. Do not use this range hood to vent hazardous or explosive materials or vapors. If you have questions, contact the manufacturer.
3. The customer should not install, repair or replace any part of the range hood unless specifically recommended in the literature accompanying it. A qualified service technician should perform all other service. Contact the nearest Dacor authorized service representative at (800) 793-0093, or at www.Dacor.com for examination, repair or adjustment.
4. Keep all packaging materials away from children. Plastic bags can cause suffocation.
5. This range hood must be installed and grounded by a qualified installer according to these installation instructions. All installation work and electrical wiring must be performed in accordance with all applicable codes and standards, including fire-rated construction.
6. Install or locate this appliance only in accordance with these installation instructions and the requirements specified by the manufacturer of the cooktop or range. Improper installation, adjustment, alteration, service or maintenance can cause serious personal injury or property damage.
7. Do not use an extension cord or adapter plug with this appliance.
8. 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 guidelines 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.
9. When cutting or drilling into the wall or ceiling, do not damage electrical wiring and other hidden utilities.
10. The installer must show the customer the location of the fuse or junction box so that the customer knows where and how to turn the power off.
11. Before installing or servicing the range hood, switch power off at the fuse or junction box and lock the electrical panel door to prevent power from being switched on accidentally. When the electrical panel cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
12. Read the use and care manual completely before using the appliance.
13. Do not tamper with the controls.
14. Never allow the filter(s) to become blocked or clogged. Do not allow foreign objects, such as cigarettes or napkins, to be sucked into the hood.
15. Clean the filter(s) and all grease-laden surfaces often to prevent grease fires and maintain performance.
16. If the cooktop and range hood are near a window, use an appropriate window treatment. Avoid long drapes or other window coverings that could blow over the cooktop and hood, resulting in a fire hazard.
17. Always run the blower(s) whenever the cooktop is operating.
18. Never leave the range or cooktop unattended when a burner (or element) is in use. Boil-overs and greasy spills may smoke and/or ignite.
19. Do not leave children alone or unattended in the area where the cooktop and range hood are in use. Never allow children to sit or stand on an appliance. Do not let children play with a range, cooktop or range hood. Do not store items of interest to children above or around the cooktop, range or range hood.
20. The minimum vertical distance between the cooktop surface and the exterior part of the hood must be no less than 30" (762 mm). The vertical distance may be longer for the range or cooktop being used. Consult the range or cooktop installation instructions for the minimum and maximum vertical distance from the appliance being used.
21. A minimum of two people are required to safely install this appliance.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

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

- a. 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.
- b. NEVER PICK UP A FLAMING PAN - you may be burned.
- c. DO NOT USE WATER, including wet dish cloths or towels - a violent steam explosion may result.
- d. 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.

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

ALL MODELS

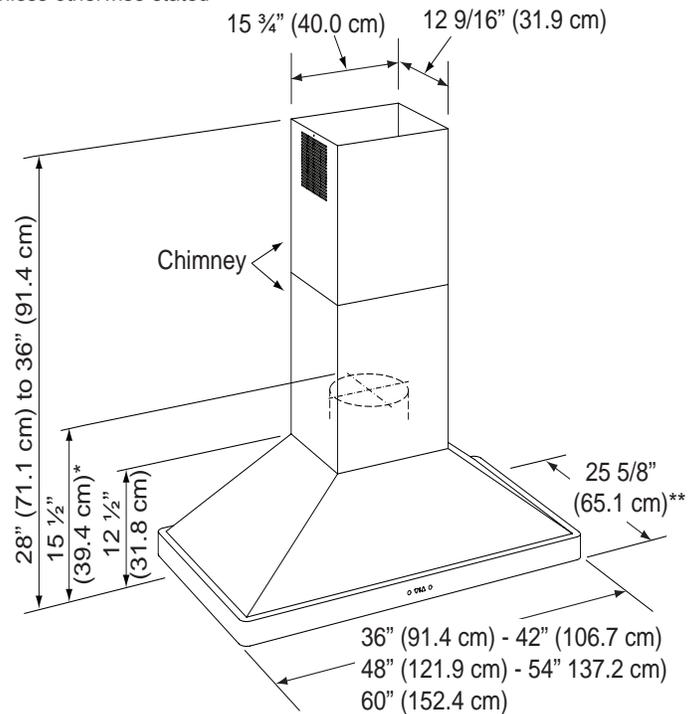
Blower	600 CFM (1200 for units with 2 blowers) with electronic speed control
Blower Speeds	4
Lights	12 Vac, 20 W halogen
Filters	Baffle type, dishwasher safe
Exhaust	8-inch
Finish	430 stainless steel
Voltage	120 Vac, 60 Hz (see below for current rating)
Circuit Requirement	120 Vac, 15 Amp grounded, dedicated circuit, minimum

MODEL SPECIFIC

SPECIFICATION				
MODEL	Blowers	Lights	Filters	Maximum Current Draw
DHI361	1	4	1	3.75 A
DHI421	1	4	1	3.75 A
DHI482	2	4	2	6.75 A
DHI542	2	6	2	7.10 A
DHI602	2	6	3	7.10 A

DIMENSIONS

Tolerances: +1/16", -0 (+1.6 mm, -0), unless otherwise stated



* 18" 1/4 on models DHI482, DHI542 and DHI602

** 30" on models DHI482, DHI542 and DHI602

IMPORTANT: The minimum installed distance from the hood to the cooktop surface must be no less than 30 inches. The minimum specified distance may be higher for the particular range or cooktop in use. Check the manufacturers specifications for the cooktop or range.

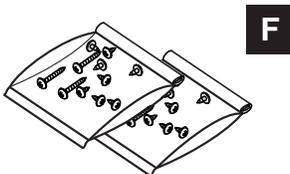
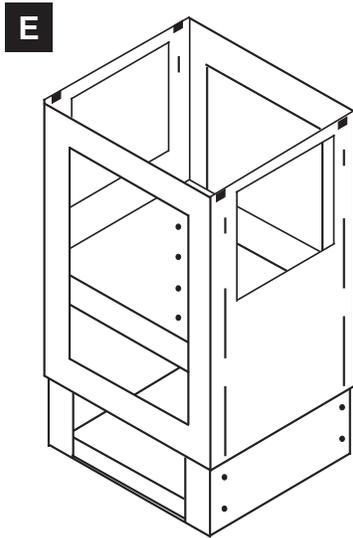
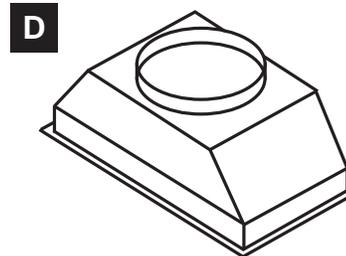
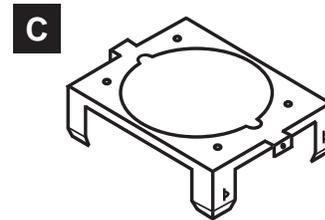
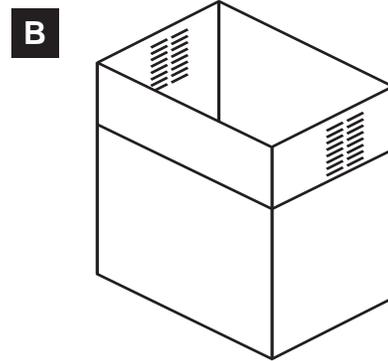
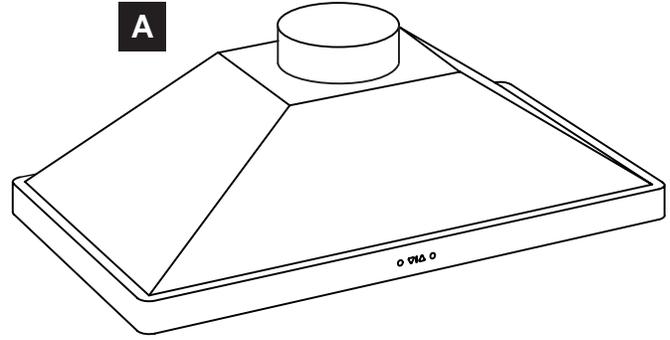
PREPARING FOR INSTALLATION

VERIFY THE PACKAGE CONTENTS

Unpack the parts box and verify that all required components have been provided. If any item is missing or damaged, please contact the dealer immediately. Do not install a damaged or incomplete appliance.

- A** Hood assembly with filter(s)
- B** Chimney assembly (2 piece)
- C** Mounting bracket
- D** Blower exhaust cowling (2 blower units only)
- E** Framework assembly (2 piece)
- F** Mounting and assembly hardware
- G** Use and care manual

Make sure you have everything necessary for proper installation before proceeding.



PREPARING FOR INSTALLATION

WARNING

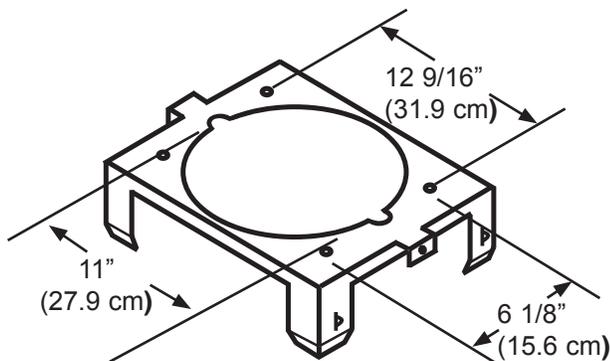
- The electrical service to the range hood should be installed only by a licensed electrician.
- Observe all governing codes and ordinances during planning and installation. Contact your local building department for further information.
- **DO NOT** use the mounting anchors provided with the unit. They are part of a standard mounting hardware package provided with many Dacor hoods, but not suitable for use with [this](#) model.
- The range hood is heavy. To prevent personal injury and property damage caused by the hood coming loose from the ceiling, mount the hood mounting bracket only as specified below.

PLANNING THE LOCATION

- Carefully check the location where the hood is to be installed. The hood should be placed for convenient access. Make certain that electrical power can be provided in the selected location.
- Install the range hood and cooking appliance(s) so that they can be removed if service is required.
- Plan the installation so that all minimum dimensions are met or exceeded (see page 3). Dimensions shown provide minimum clearances, unless otherwise noted.

Preparing the Mounting Bracket Location

- The mounting bracket must be attached directly to the studs in the ceiling, or to a reinforced mounting block secured to the studs. See below for mounting bracket hole dimensions.



- Attach the mounting bracket directly above the center of the cooktop.
- Attach the mounting bracket to the mounting surfaces with #12 screws (not supplied). The screws must be of sufficient length to penetrate into the wood mounting surfaces at least 1 1/2" (3.8 cm).
- The mounting surface must be level.
- Allow clearance in the center of the mounting bracket for the exhaust duct to pass through the ceiling (8-inches in diameter).

ELECTRICAL POWER SUPPLY

Electrical Specifications

It is the owner's responsibility to ensure that the electrical connection of this appliance is performed by a qualified electrician. The electrical installation, including minimum supply wire size and grounding, must be in accordance with the National Electric code ANSI/NFPA* (or latest revision) and local codes and ordinances.

Connect the hood to a 120 Vac, 60 Hz dedicated, grounded, circuit protected by a 15 Amp circuit breaker or time delay fuse.

*A copy of this standard may be obtained from:

National Fire Protection Association
1 Batterymarch Park
Quincy, Massachusetts 02269-9101

PREPARING FOR INSTALLATION

PLAN THE DUCT WORK INSTALLATION

WARNING

- To reduce the risk of fire and to properly exhaust air, be sure to duct air outside the house or building. Do not vent exhaust air into spaces within walls or ceilings or into attics, crawl spaces or garages.
 - Tape all duct joints securely to prevent combustion by-products, smoke or odors from entering the home. Doing so will also improve system efficiency.
 - Do not exhaust more than one vent into a single duct.
 - Use only duct work constructed of materials deemed acceptable by state, municipal and local codes.
 - Range hoods may interrupt the proper flow of smoke and combustion gases from furnaces, gas water heaters and fireplaces. To avoid drawing lethal gases into the home, follow the manufactures recommendation for these devices and consult NFPA and ASHRAE recommendations.
 - **DO NOT** install an additional in-line or external blower to increase the length of the duct run. Even small differences between blower air flow rates can greatly reduce the air draw by the hood.
- All duct work materials (including screws and duct tape) must be purchased separately by the customer. When planning new duct work, always look for the shortest, most direct route to the outside.
 - The hood exhaust connects to an 8-inch round duct. You can increase the duct size over the duct run if desired. To prevent a back draft, never decrease the duct size over the run.
 - Do not rely on duct tape alone to seal duct joints. Fasten all connections with sheet metal screws and tape all joints with duct tape. Use sheet metal screws as require to support the duct weight.
 - To prevent back-drafts, a damper at the duct outlet may also be required.
 - Make sure duct work does not interfere with floor joists or wall studs.

Calculating the Maximum Duct Run Length

The maximum straight duct length for the hood is 100 feet. For each elbow and transition added to the duct work, a certain number of feet must be subtracted from the maximum straight length to compensate for wind resistance. To determine the length the duct work cannot exceed, subtract all of the equivalent lengths of the elbows and transitions listed below from 100 feet.

Duct Work Equivalent Lengths

DUCT PIECE	SUBTRACT
90° elbow (8" Dia.)	7 feet
45° elbow (8" Dia.)	3 feet
3 1/4" x 10" to 8" round	4 foot
Wall cap with damper	30 feet
Roof cap	30 feet

Duct Work Design Tips

- Wherever possible, reduce the number of transitions and turns to as few sharp angles as possible. Two staggered 45° angles are better than one 90°.
- Keep turns as far away from the hood exhaust as possible, with as much space between each bend as possible.
- For best performance, use round duct instead of rectangular, especially when elbows are required.
- If multiple elbows are used, try to keep a minimum of 24" (61 cm) of straight duct between them.
- Avoid "S" or "back to back" configurations of adjacent elbows.
- In regions where the weather gets extremely cold, thermal breaks, such as a short section of non-metallic duct, should be used to avoid indoor heat loss. The break should be located as close to the pass through point to the outside as possible.
- Do not use flexible metal duct.
- Do not use duct work that is smaller in cross-sectional area than the recommended size duct (8" round).

INSTALLATION INSTRUCTIONS

⚠ WARNING

- Do not install the range hood unless the electrical service provided meets the range hood specifications.
- Observe all governing codes and ordinances during planning and installation. Contact your local building department for further information.
- A qualified technician must complete the installation of this built-in appliance. The owner is responsible to make sure the hood is properly installed.
- To avoid an electric shock hazard and property damage, locate electric wires and water pipes and avoid drilling in the vicinity.
- The range hood is heavy. To prevent personal injury and property damage install the hood only as specified below. Make sure all screws used to mount and assemble the hood are tight.

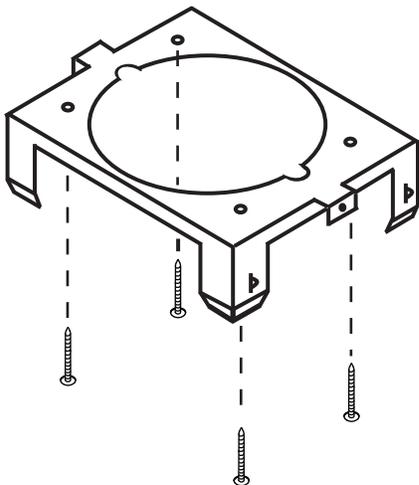
ELECTRIC SERVICE INSTALLATION

The electrical connection box must be:

- Connected to a 120 Vac, 60 Hz dedicated, grounded, circuit protected by a 15 Amp circuit breaker or time delay fuse.
- Located a minimum of 17" (43.2 cm) above the bottom of the range hood.

MOUNTING BRACKET INSTALLATION

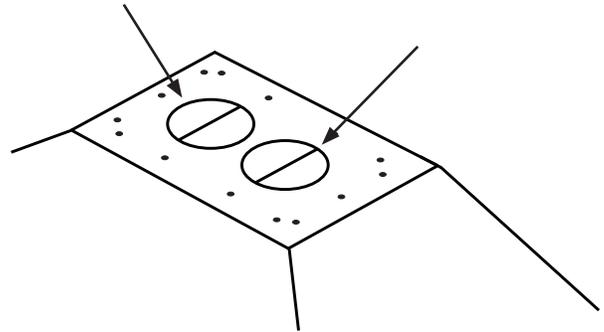
1. Locate the mounting bracket and position it against the ceiling at the previously determined mounting location (see page 5).
2. Using a pencil, mark the four mounting hole locations on the ceiling.
3. Drill four 1/16" (1.6 mm) pilot holes at the mounting hole locations.
4. Attach the bracket using four #12 screws (not supplied). Make sure the screws penetrate into the wood mounting surfaces 1 1/2" (3.8 cm).



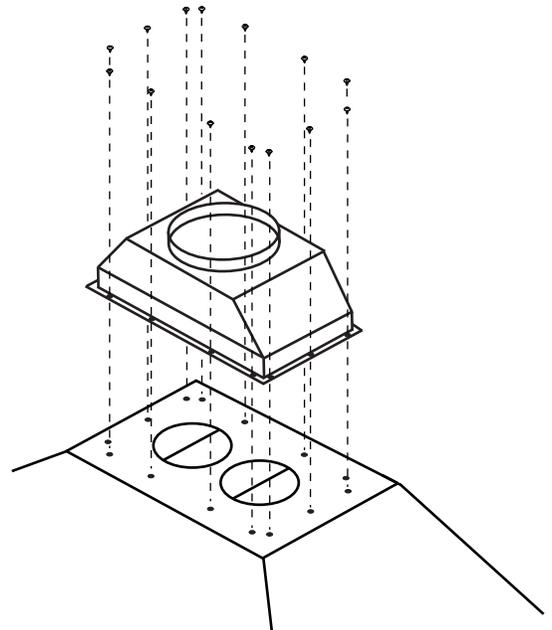
ASSEMBLE THE HOOD

⚠ WARNING

- Lifting and hanging the range hood requires two people. Do not attempt to lift the hood without assistance.
1. Place the hood assembly on a soft surface with the bottom side down during assembly to avoid damage.
 2. Tip the hood up on it's side and remove the filter(s) to reduce weight and avoid damage.
 3. Inside the exhaust outlet(s) there are metal or plastic damper flaps. The flaps close to help prevent back-drafts when the blower is turned off. Make sure all the flaps open and close freely before proceeding. Remove any shipping tape that may be present.



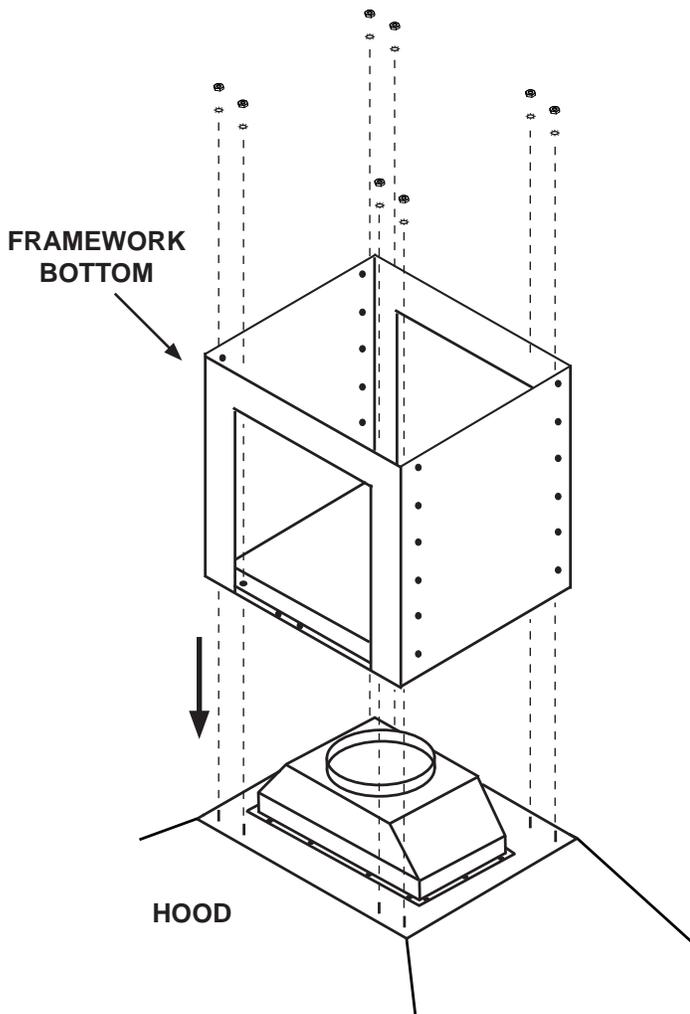
4. Remove the tape that holds the wiring in place on top of the hood during shipment.
5. On models with two blowers: Put the exhaust cowling over the blower outlets on the top of the hood. Fasten the cowling in place with 14 machine screws.



INSTALLATION INSTRUCTIONS

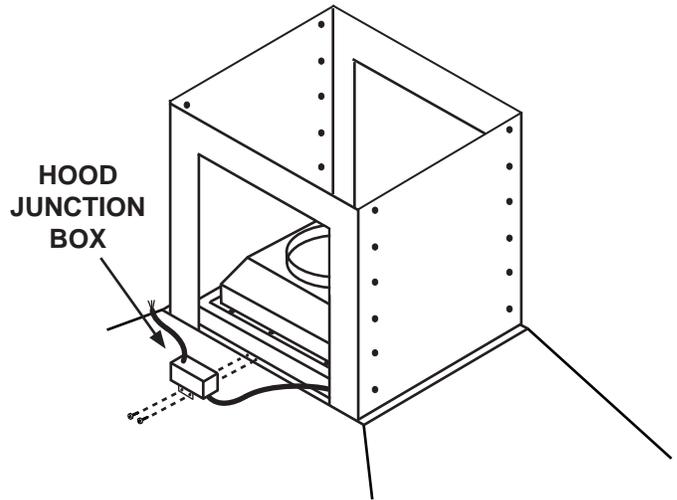
HOOD ASSEMBLY (CONT)

6. Separate the bottom framework piece from the top framework piece. The top framework piece has 5-inch slots on the sides. The bottom piece has a series of holes on the sides.
7. Position the bottom framework piece on top of the hood. Slide the studs on the top of the hood into the holes on the bottom of the framework piece. The cut-outs for the wiring allow the bottom framework piece to fit on only one way. If it does not fit properly, turn it 180° so that the cut-outs line up. Make sure all wiring is tucked inside the framework piece and are not pinched.

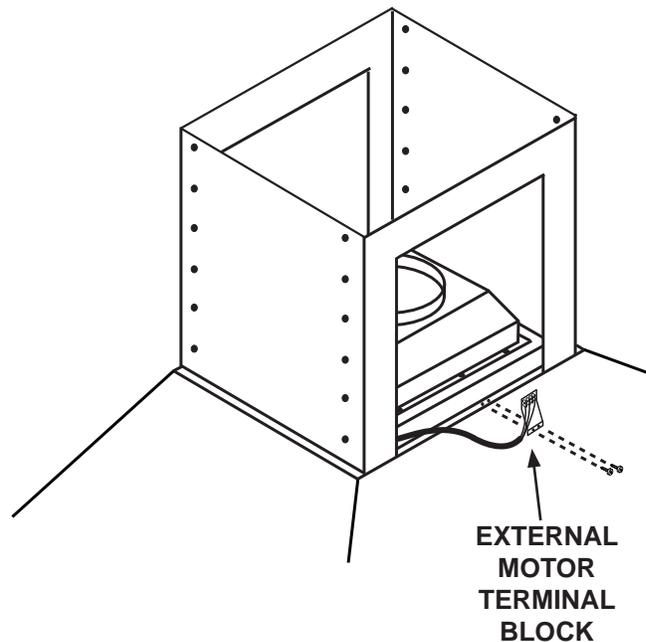


8. Use eight provided lock washers and nuts to secure the bottom framework piece to the top of the hood.

9. Attach the hood junction box to the rim of the bottom framework piece using two machine screws as shown.

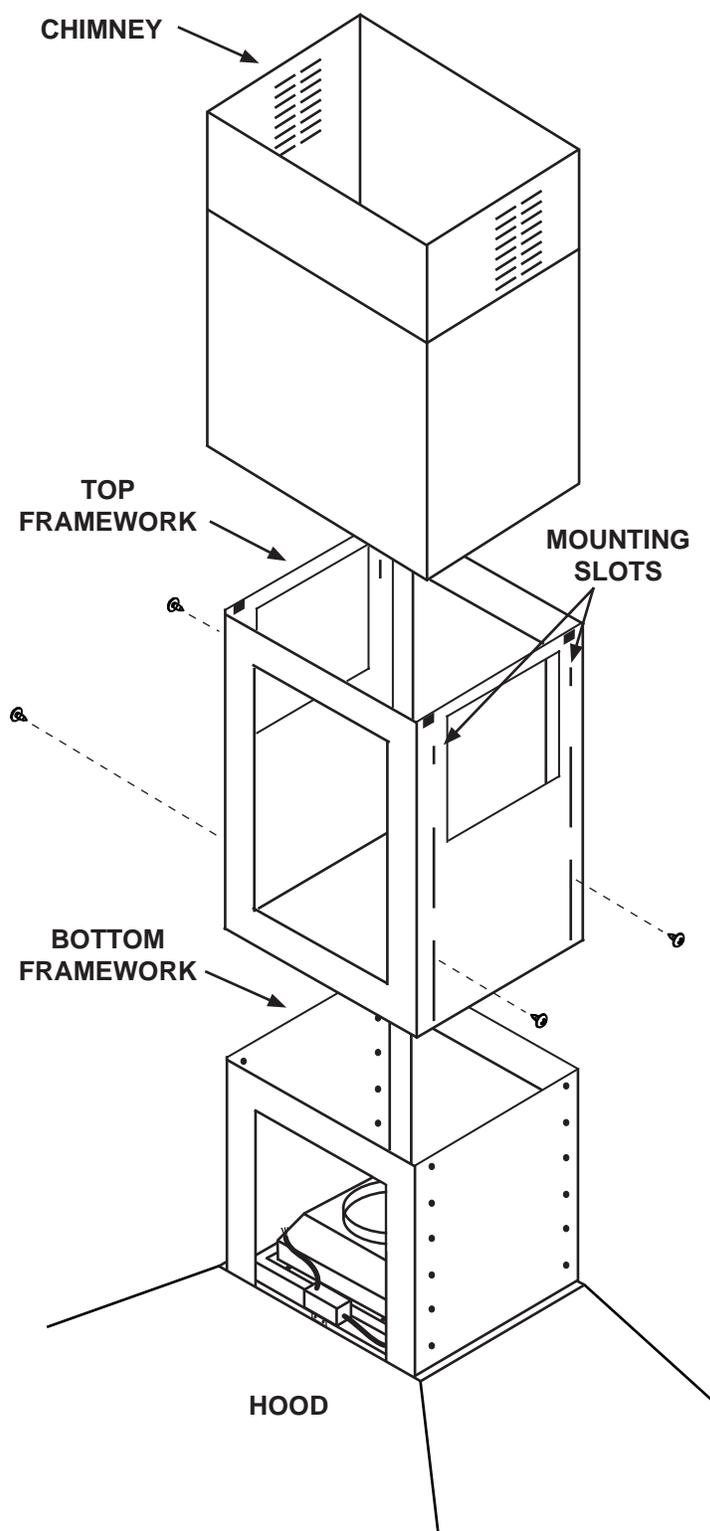


10. Attach the external motor terminal block to the rim of the bottom framework piece using two machine screws as shown. It mounts on the opposite side of the hood junction box.



INSTALLATION INSTRUCTIONS

11. Determine the **required framework height**. To determine the required framework height:
 - Measure the distance from the ceiling to the cooktop.
 - Subtract the height at which the hood will be mounted (30" minimum) and the hood thickness (12 1/2") from the distance measured.
12. Put the top framework piece over the bottom framework piece. The mounting slots on the top piece must be up.
13. Use four machine screws to fasten the top piece to the bottom piece. The total height of the two pieces together must equal the required framework height determined above.
14. Remove the protective plastic covering from both pieces of the chimney assembly. Do not remove the protective tape strips from the inside. They protect the telescoping pieces from scratching during installation.
15. Carefully slide both sections together so that only the vents on the top section show.
16. Hold the chimney vertically with the vents up.
17. Carefully put the chimney over the top of the framework, taking care not to scratch the surfaces. Make sure the Dacor logo faces the same side as the control panel.
18. Make sure any wires are tucked in behind the chimney and are not pinched.



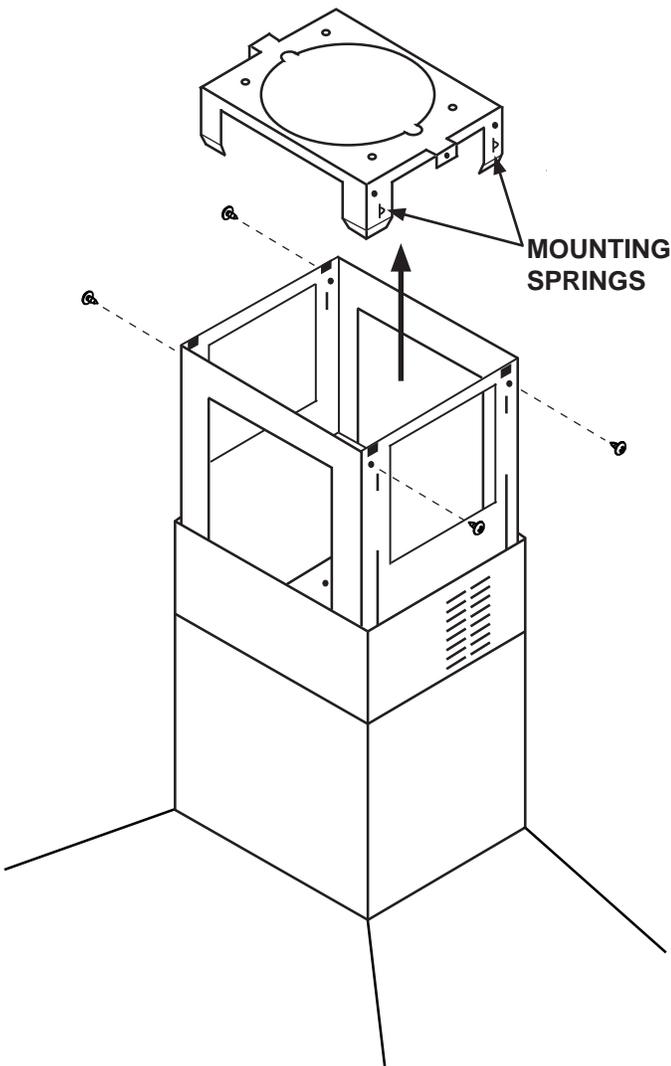
INSTALLATION INSTRUCTIONS

HANGING THE RANGE HOOD

⚠ WARNING

- To prevent personal injury, do not rely on the mounting springs to hold the hood assembly in place on the ceiling. Once the hood is hooked in place IMMEDIATELY secure the framework to the mounting bracket as described below.

- Before raising the hood into position, lift it up and orient it so that the control panel faces the same direction as the front of the cooktop or range.
- Lift the hood assembly up on both sides and slip the end of the framework over the mounting bracket. Push up until all four mounting springs protrude out of the mounting slots on the top of the framework.
- Attach the framework to the mounting bracket using four self-tapping screws.

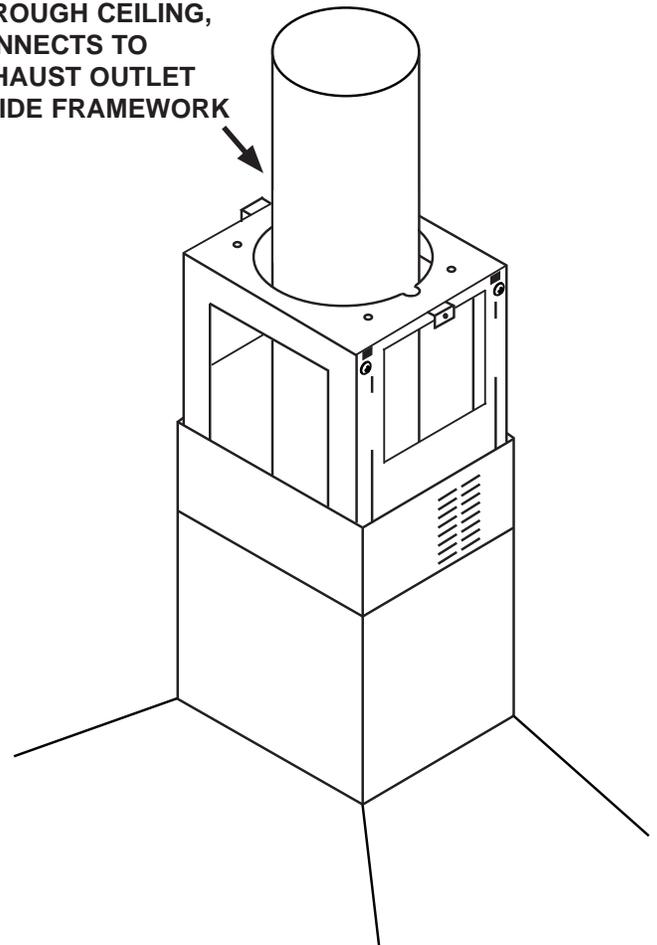


INSTALL THE DUCT WORK

⚠ WARNING

- Do not use screws to attach the duct work to the hood exhaust outlet. Use duct tape only. Screws may prevent the damper flaps on the top of the hood from opening.
- Install the duct work system. Lift the chimney up and reach inside the framework to access the hood exhaust. Attach the duct to the hood exhaust with duct tape alone. Use sheet metal screws (not provided) and duct tape on all the remaining duct system joints.

DUCT WORK THROUGH CEILING, CONNECTS TO EXHAUST OUTLET INSIDE FRAMEWORK



INSTALLATION INSTRUCTIONS

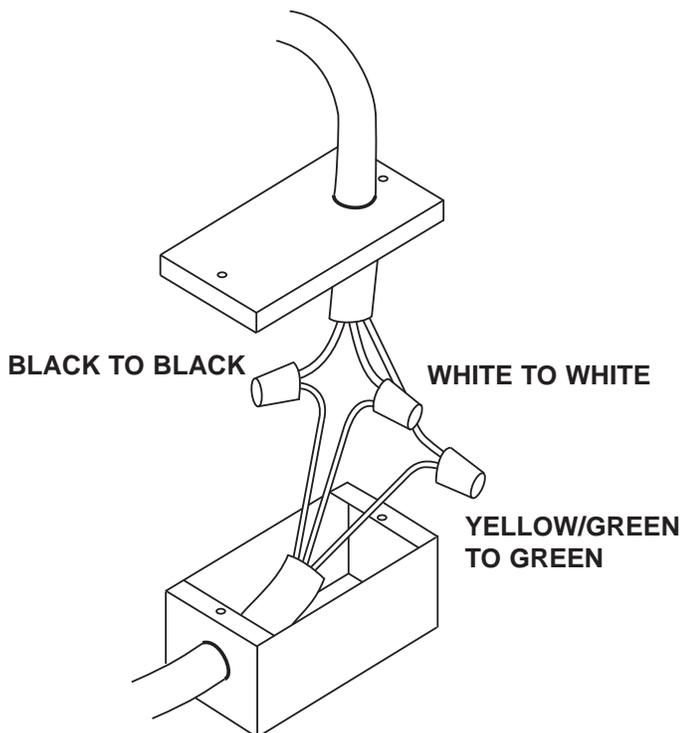
FINAL ELECTRICAL INSTALLATION

⚠ WARNINGS

- To avoid electrical shock or fire hazard, make sure the power supply at the fuse or junction box is turned off before proceeding with final electrical installation.
- Improper connection of the hood electrical wiring may create an electric shock or fire hazard and may result in damage to the hoods electrical system.
- Do not ground the hood to the neutral (white) power supply wire. Connect the hood ground wire to a separate, properly grounded wire installed by a licensed electrician.

Connect the house power supply wires to the wires coming out of the hood junction box, inside the chimney:

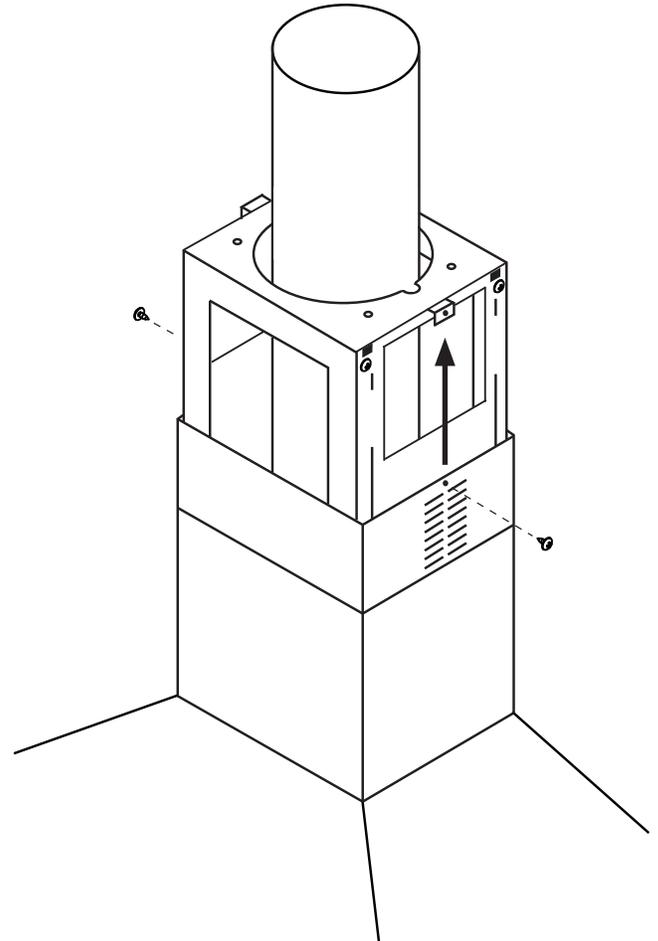
1. Connect the white wire from the hood to the neutral (white) power supply wire.
2. Connect the black wire from the hood to the hot (black) power supply wire.
3. Connect the green and yellow wire from the hood to the house ground (green) wire from the junction box.



FINAL CHIMNEY ASSEMBLY

IMPORTANT: Be careful not to pinch the electrical wires while assembling the chimney.

1. Move the chimney up toward the ceiling. Line up the holes on the side of the chimney, above the vents, with the holes on the side of the mounting bracket.



2. Attach the sides of the chimney to the bracket using two machine screws, one on each side.
3. Carefully, slide the bottom portion of the chimney down until it rests on the top of the range hood.

Reinstall the range hood filter(s) before operation.

INSTALLATION INSTRUCTIONS

VERIFYING PROPER OPERATION

1. Turn on power at the junction or fuse box.
2. If the control panel is not lit, remove the filter(s) and turn on the main power switch located behind the filters on the underside of the hood. Replace the filter(s).
3. Touch the light key. Verify that all the lights come on.
4. Touch the light key again to turn the lights off.
5. Touch the blower “+” key once and release. Verify that one light is showing on the blower speed indicator and that the blower is on at low speed.
6. Touch and release the blower “+” repeatedly, three times. Verify that with each touch of the key the number of lights on the blower speed indicator increases and that the blower speed increases.
7. Touch and hold the blower “-” key until the blower turns off.

If the hood fails to operate properly:

- Verify that power is supplied to the hood.
- Check the electrical connections to ensure that the installation has been completed correctly.
- Repeat the above test.
- If the appliance still does not work, contact an authorized Dacor service company at (800) 793-0093.

Do not attempt to repair the appliance yourself. Dacor is not responsible for service required to correct a faulty installation.

INSTALLATION CHECKLIST

WARNING

- To ensure a safe and proper installation, the following checklist should be completed by the installer to ensure that no part of the installation has been overlooked.
 - Proper installation is the responsibility of the homeowner. The importance of proper installation of your Dacor range hood cannot be overemphasized.
- Is the mounting bracket properly attached to the ceiling according to the instructions on page 7?
 - Is the hood properly secured to the mounting bracket with the machine screws (see page 10)?
 - Is the duct work completely installed? Are all joints attached with sheet metal screws and wrapped with duct tape (see pages 6 and 10)?
 - Is the range hood wired and grounded according to these instructions and in accordance with all applicable electrical codes (see page 11)?
 - Are the filters properly installed according to the use and care manual?
 - Has proper operation been verified?
 - Have any problems been noted on the warranty card or during the on-line warranty activation? Has the warranty been activated on-line or the warranty card filled out completely and mailed?

dacor[®]
The Life of the Kitchen.[®]