

**KitchenAid®**  
FOR THE WAY IT'S MADE.™

CUSTOMER'S PRODUCT HIGHLIGHTED IN YELLOW

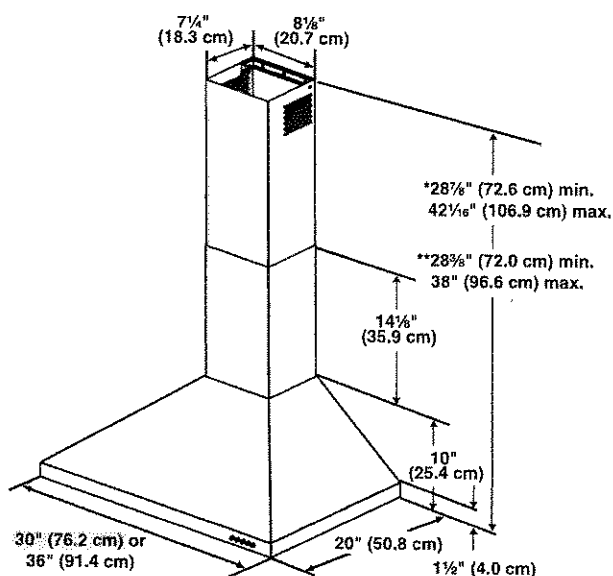
## Wall-Mount Canopy Range Hood

## PRODUCT MODEL NUMBERS

KVWB400D KVWB406B

**Electrical:** A 120-volt, 60 Hz, AC only, 15-amp, fused electrical circuit is required.

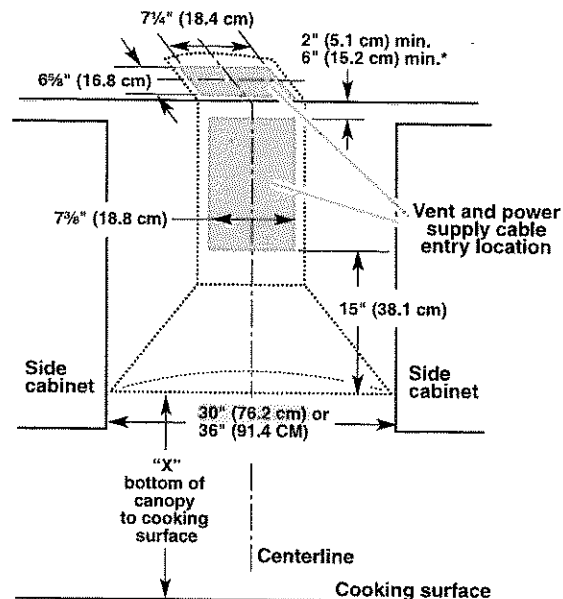
## PRODUCT DIMENSIONS



\*For non-vented (recirculating) installations

**\*\*For vented installations**

### CABINET DIMENSIONS



\*For non-vented (recirculating) installations

**IMPORTANT:**

Minimum distance "X": 24" (61.0 cm) from electric cooking surface.

Minimum distance "X": 27" (68.6 cm) from gas cooking surfaces.

Suggested maximum distance "X": 36" (91.4 cm)

The chimneys can be adjusted for different ceiling heights. See the following chart.

## Vented Installations

	Min. ceiling height	Max. ceiling height
Electric cooking surface	7' 5" (2.26 m)	9' 2" (2.79 m)
Gas cooking surface	7' 8" (2.34 m)	9' 2" (2.79 m)

### Non-vented (recirculating) Installations

	Min. ceiling height	Max. ceiling height
Electric cooking surface	7' 5" (2.26 m)	9' 6" (2.9 m)
Gas cooking surface	7' 8" (2.34 m)	9' 6" (2.9 m)

**\*NOTE:** The range hood chimneys are adjustable and designed to meet varying ceiling or soffit heights depending on the distance "X" between the bottom of the range hood and the cooking surface. For higher ceilings, a Stainless Steel Chimney Extension Kit Part Number W10337357 is available from your dealer or an authorized parts distributor. The chimney extension replaces the upper chimney shipped with the range hood.

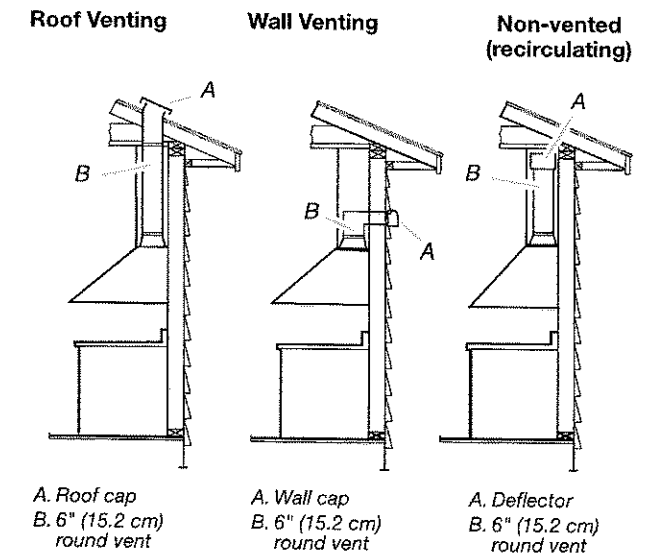
VENTING METHODS

This canopy hood is factory set for venting through the roof or wall.  
A 6" (15.2 cm) round vent system is needed for installation (not included).  
The hood exhaust opening is 6" (15.2 cm) round.

**NOTE:** Flexible vent is not recommended. Flexible vent creates back pressure and air turbulence that greatly reduce performance.  
Vent system can terminate either through the roof or wall. To vent through a wall, a 90° elbow is needed.

**Rear discharge**  
A 90° elbow may be installed immediately above the hood.

**For Non-Vented (recirculating) Installations**  
If it is not possible to vent cooking fumes and vapors to the outside, the hood can be used in the non-vented (recirculating) version, using a Recirculation Kit (which includes charcoal filters and a deflector). To order, see the "Assistance or Service" section.

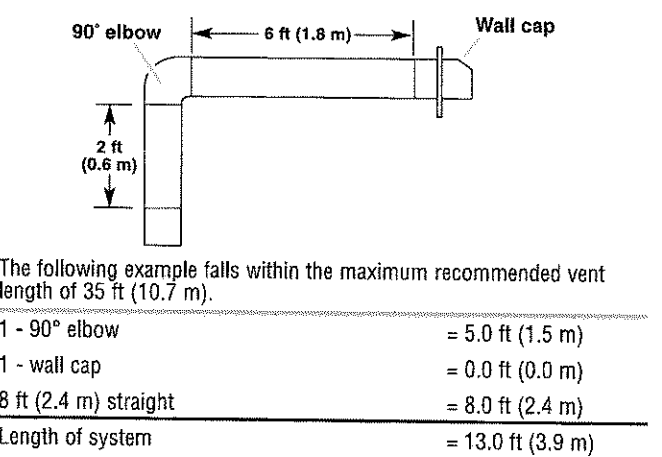


Calculating Vent System Length

To calculate the length of the system you need, add the equivalent feet (meters) for each vent piece used in the system.

Vent Piece	6" (15.2 cm)
45° elbow	2.5 ft (0.8 m)
90° elbow	5.0 ft (1.5 m)

Maximum equivalent vent length is 35 ft (10.7 m).  
Example vent system



# KitchenAid® 30" (76.2 cm) Slide-in Gas Range

## PRODUCT MODEL NUMBERS

KSGB900E      KSGG700E

## GAS SUPPLY REQUIREMENTS

### Gas supply line:

- Provide a gas supply line of 3/4" (1.9 cm) rigid pipe to the range location. A smaller size pipe on longer runs may result in insufficient gas supply. With LP gas, piping or tubing size can be 1/2" (1.3 cm) minimum. Usually, LP gas suppliers determine the size and materials used in the system.

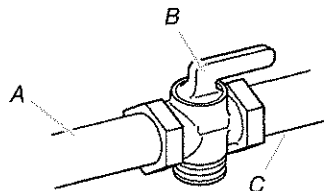
**NOTE:** Pipe-joint compounds that resist the action of LP gas must be used. Do not use TEFLON® tape.

### Flexible metal appliance connector:

- If local codes permit, a new CSA design-certified, 4 to 5 ft (122 to 152.4 cm) long, 1/2" (1.3 cm) or 3/4" (1.9 cm) I.D., flexible metal appliance connector may be used for connecting range to the gas supply line.



- A 1/2" (1.3 cm) male pipe thread is needed for connection to the female pipe threads of the inlet to the appliance pressure regulator.
- Do not kink or damage the flexible metal tubing when moving the range.
- Must include a shutoff valve:  
The supply line must be equipped with a manual shutoff valve. This valve should be located in the same room but external to the range opening, such as an adjacent cabinet. It should be in a location that allows ease of opening and closing. Do not block access to shutoff valve. The valve is for turning on or shutting off gas to the range.



A. Gas supply line  
B. Shutoff valve "open" position  
C. To range

### Gas Pressure Regulator

The gas pressure regulator supplied with this range must be used. The inlet pressure to the regulator should be as follows for proper operation:

Natural gas:

Minimum pressure: 5" WCP

Maximum pressure: 14" WCP

LP gas:

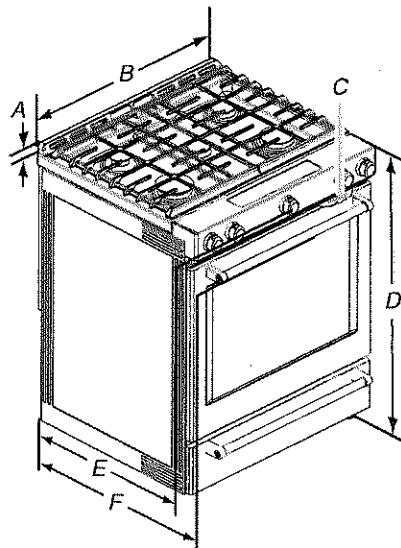
Minimum pressure: 11" WCP

Maximum pressure: 14" WCP

Contact local gas supplier if you are not sure about the inlet pressure.

## PRODUCT DIMENSIONS

This manual covers several models. Your model may appear different from the models depicted. Dimensions given are maximum dimensions across all models.



A. 1 3/8" (3.0 cm) height from cooktop to top of vent

B. 29 1/2" (75.9 cm)

C. Model/serial number plate (located behind the oven door on the top right-hand side of the oven frame)

D. 36" (91.4 cm) height to top of cooktop edge with leveling legs screwed all the way in\*

E. 28 5/8" (71.9 cm) max. depth from front of console to back of range.

F. 28 7/8" (73.3 cm) max. depth from handle to back of range.

**IMPORTANT:** Range must be level after installation. Follow the instructions in the "Level Range" section. Using the cooktop as a reference for leveling the range is not recommended.

\*Range can be raised approximately 1" (2.5 cm) by adjusting the leveling legs.

## Type of Gas

### Natural gas:

- This range is factory set for use with Natural gas. See "Gas Conversions" section. The model/serial rating plate located behind the control panel has information on the types of gas that can be used. If the types of gas listed do not include the type of gas available, check with the local gas supplier.

### LP gas conversion:

Conversion must be done by a qualified service technician.

No attempt shall be made to convert the appliance from the gas specified on the model/serial rating plate for use with a different gas without consulting the serving gas supplier. See "Gas Conversions" section.

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ELECTRICAL REQUIREMENTS

**IMPORTANT:** The range must be electrically grounded in accordance with local codes and ordinances, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 or Canadian Electrical Code, CSA C22.1.

- If codes permit and a separate ground wire is used, it is recommended that a qualified electrical installer determine that the ground path is adequate.
- A 120 volt, 60 Hz., AC only, 15-amp fused, electrical circuit is required. A time-delay fuse or circuit breaker is also recommended. It is recommended that a separate circuit serving only this range be provided.
  - Electronic ignition systems operate within wide voltage limits, but proper grounding and polarity are necessary. Check that the outlet provides 120-volt power and is correctly grounded.

CABINET OPENING DIMENSIONS

Cabinet opening dimensions shown are for 25" (64.0 cm) countertop depth, 24" (61.0 cm) base cabinet depth and 36" (91.4 cm) countertop height.

**IMPORTANT:** If installing a range hood or microwave hood combination above the range, follow the range hood or microwave hood combination installation instructions for dimensional clearances above the cooktop surface.

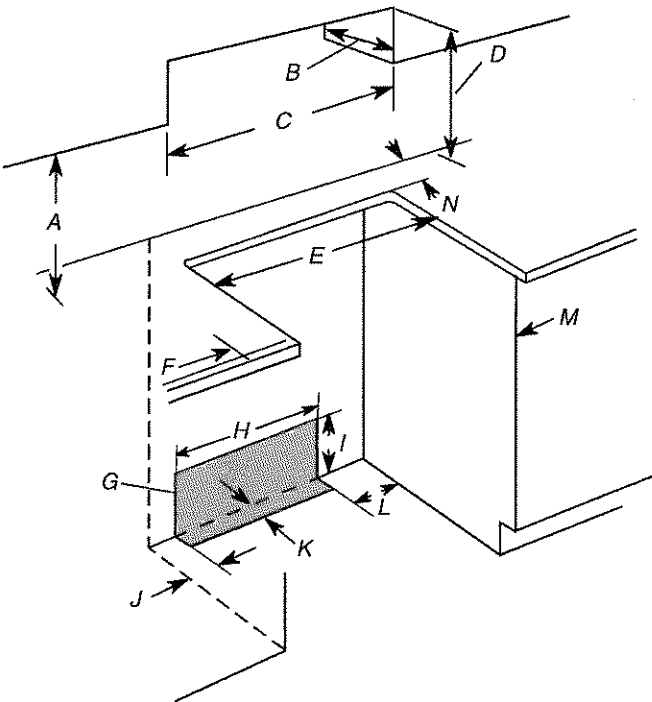
Range may be installed next to combustible walls with zero clearance.

**NOTE:** When installed in a slide-in cutout, the front of oven door may protrude beyond the base cabinet.

- A. 18" (45.7 cm) upper side cabinet to countertop
- B. 13" (33 cm) max. upper cabinet depth
- C. 30" (76.2 cm) min. opening width
- D. For minimum clearance to top of cooktop, see NOTE\*.
- E. In U.S.A.: 30" (76.2 cm) min. opening width  
In Canada: 31" (78.7 cm) min. opening width
- F. 3" (7.6 cm) min. clearance from both sides of range to side wall or other combustible material.
- G. The shaded area is recommended for installation of rigid gas pipe and grounded outlet.
- H. 13 1/8" (33.3 cm)
- I. 7 1/16" (19.5 cm)
- J. 4 13/16" (12.2 cm)
- K. 3 1/16" (9.4 cm) or measurement of N, whichever is greater
- L. 12" (30.5 cm)
- M. Cabinet door or hinges should not extend into the cutout.
- N. Remaining counter depth should not exceed 2 1/4" (5.7 cm)

**\*NOTE:** 24" (61.0 cm) minimum when bottom of wood or metal cabinet is shielded by not less than 1/4" (0.64 cm) flame retardant millboard covered with not less than No. 28 MSG sheet steel, 0.015" (0.4 mm) stainless steel, 0.024" (0.6 mm) aluminum or 0.020" (0.5 mm) copper.

30" (76.2 cm) minimum clearance between the top of the cooking platform and the bottom of an uncovered wood or metal cabinet.



**KitchenAid®**  
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**Undercounter Dishwasher**

**PRODUCT MODEL NUMBERS**

KDFE204E, KDTE104E, KDTE204E, KDTE254E, KDTM354E, KDTM384E, KDTM404E, KDTM504E, KDTM704E, KDTM804E

**Electrical Requirements:** 120-volt, 60 Hz, AC-only, 15- or 20-amp. fused electrical supply. Copper wire only. A time delay fuse or circuit breaker and separate circuit is recommended.

**If direct wiring dishwasher:** Use flexible, armored or nonmetallic, sheathed copper wire with grounding wire that meets the wiring requirements for your home and local codes and ordinances.



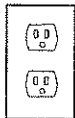
Use a UL Listed or CSA Approved conduit connector.

**If connecting dishwasher with a power supply cord:**

Use power supply cord kit (Part Number 4317824) marked for use with dishwashers. Follow the kit instructions for installing the power supply cord.



Power supply cord must plug into a grounded three-prong outlet located in the cabinet next to the dishwasher opening. Outlet must meet all local codes and ordinances.



**Water Supply Requirements:** A hot water line with 20 to 120 psi (138 to 862 kPa) water pressure. Water temperature must be 120°F (49°C) water at dishwasher. Use 3/8" O.D. copper tubing with compression fitting or flexible braided water supply line

**Note:** 1/2" minimum plastic tubing is not recommended.

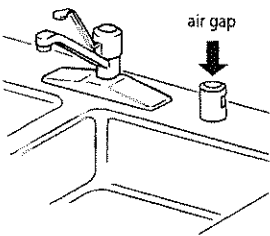
Use a 90° elbow with 3/4" hose connection with rubber washer (part number W10273460). Do not solder within 6" (15.2 cm) from water inlet valve.

**Drain Requirements:** A new drain hose is supplied with your dishwasher. If this is not long enough, use a new drain hose with a maximum length of 12' (3.7 m) (Part No. 3385556) that meets all current AHAM/IAPMO test standards, is resistant to heat and detergent, and fits the 1" (2.5 cm) drain connector of the dishwasher.

Make sure to connect the drain hose to waste tee or disposer inlet above drain trap in house plumbing and 20" (50.8 cm) minimum above the floor. It is recommended

that the drain hose either be looped up and securely fastened to the underside of the counter, or be connected to an air gap.

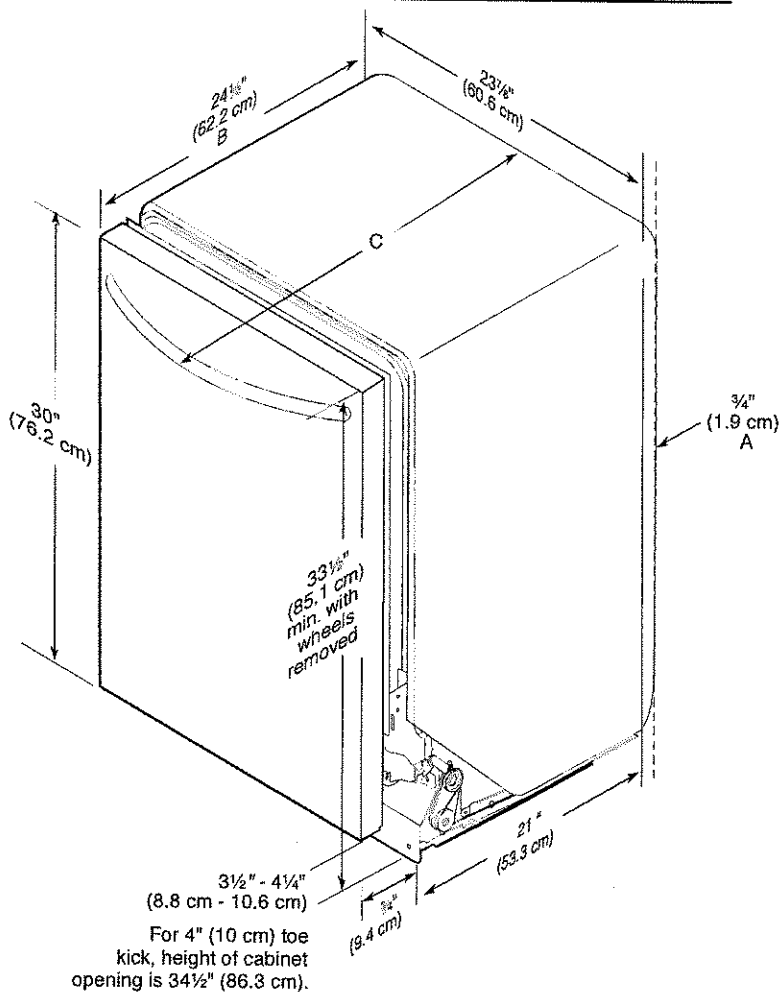
Make sure to use an air gap if the drain hose is connected to house plumbing lower than 20" (50.8 cm) above subfloor or floor.



Use 1/2" (1.3 cm) minimum I.D. drain line fittings.

If required, the air gap should be installed in accordance with the air gap installation instructions. When connecting the air gap a rubber hose (not provided) will be needed to connect to the waste tee or disposer inlet.

**PRODUCT DIMENSIONS**



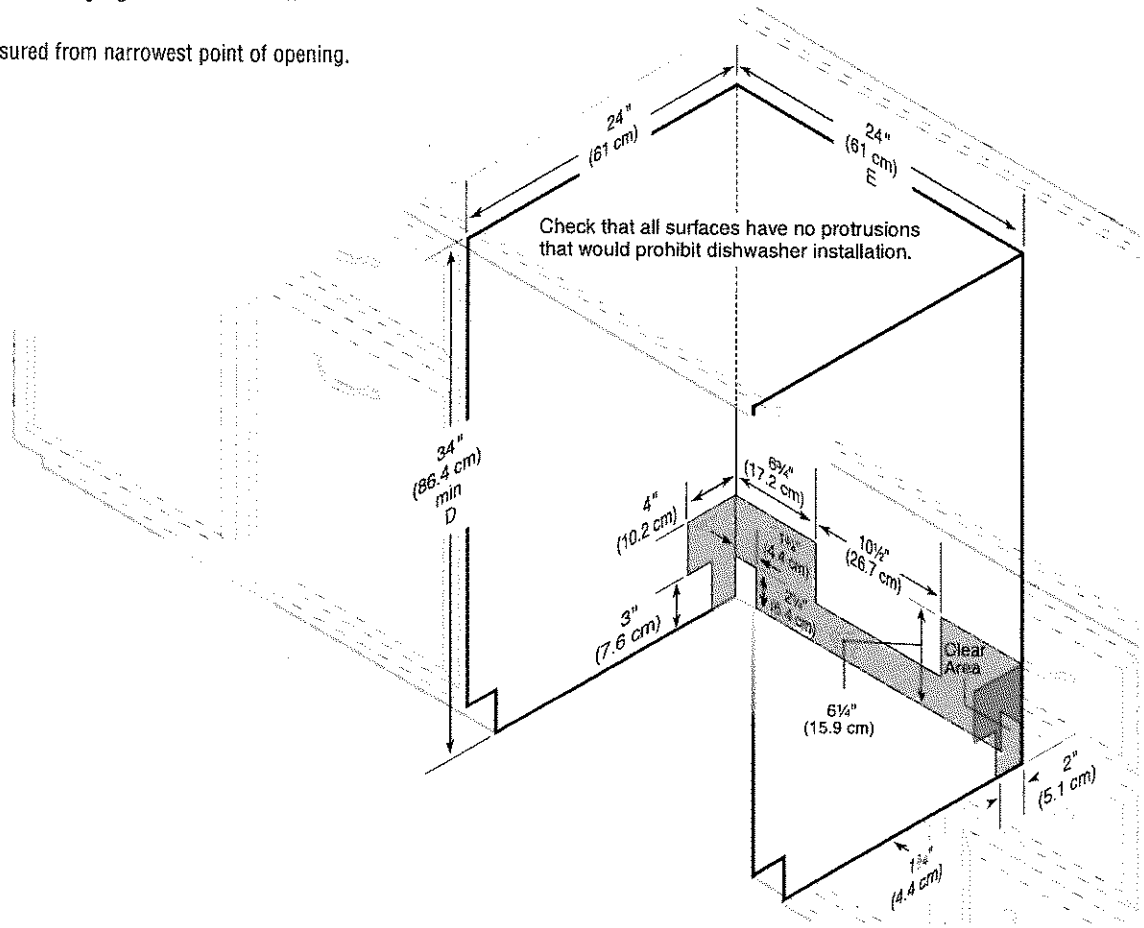
- A. Insulation may be compressed (not used on all models).
- B. For panel-ready models, dishwasher depth is 24" (60 cm) not including the 3/4" (1.9 cm) custom door panel.
- C. Door handles may protrude forward of the face of the dishwasher; varies by model.

CABINET CUTOUT DIMENSIONS

NOTE: Shaded areas of cabinet walls show where utility connections may be installed.

\*Measure from the lowest point on the underside of the countertop. May be reduced to 33½" (85.1 cm) be removing the rear leveling legs from dishwasher.

\*\*Minimum, measured from narrowest point of opening.





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**Bottom Mount Refrigerator**

## PRODUCT MODEL NUMBERS

KBFS20EC	KBFS25EC
KBFS22EC	KRFC300E
KRFF302E	KRFF305E

**Electrical:** A 115-volt, 60-Hz, AC-only, 15- or 20-amp fused, grounded electrical supply is required. It is recommended that a separate circuit serving only your refrigerator be provided. Use an outlet that cannot be turned off by a switch. Do not use an extension cord.

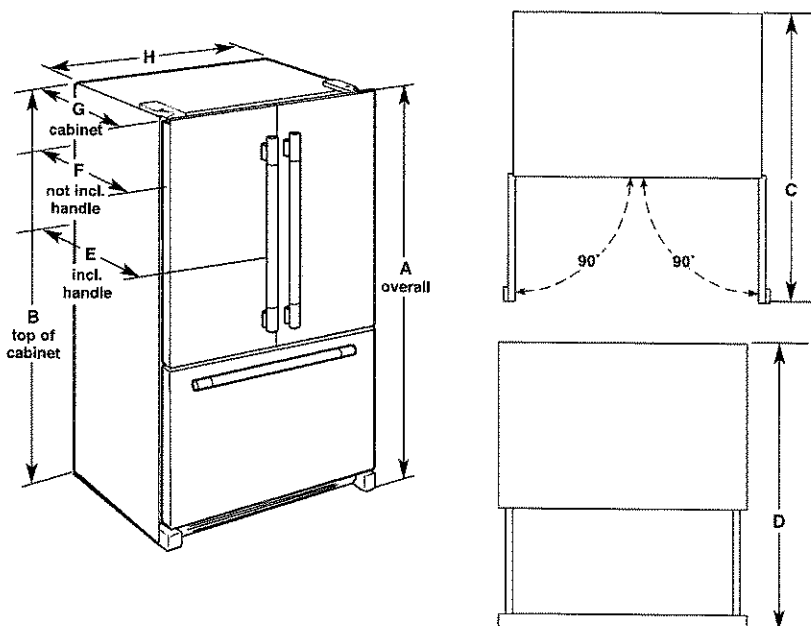
**NOTE:** Before performing any type of installation, cleaning, or removing a light bulb, turn the control (Thermostat, Refrigerator or Freezer Control depending on the model) to OFF and then disconnect the refrigerator from the electrical source. When you are finished, reconnect the refrigerator to the electrical source and reset the control (Thermostat, Refrigerator or Freezer Control depending on the model) to the desired setting. See "Using the Controls."

**Water:** A cold water supply with water pressure between 35 and 120 psi (241 and 827 kPa) is required to operate the ice maker and water dispenser. If you have questions about your water pressure, call a licensed, qualified plumber.

**IMPORTANT:** The pressure of the water coming out of a reverse osmosis system going to the water inlet valve of the refrigerator needs to be between 35 and 120 psi (241 and 827 kPa).

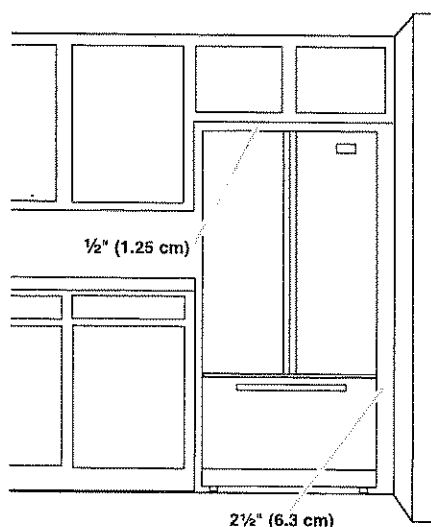
**Reverse Osmosis Water Supply:** If a reverse osmosis water filtration system is connected to your cold water supply, the water pressure to the reverse osmosis system needs to be a minimum of 40 to 60 psi (276 to 414 kPa).

## PRODUCT DIMENSIONS



Model Number/Size	Height - Overall "A"	Height - Top of Cabinet "B"	Depth - Doors Open 90° "C"	Depth - Drawer Open "D"	Depth - With Handles "E"	Depth - Without Handles "F"	Depth - Cabinet Only "G"	Width - Cabinet "H"
KBFS20EC 20.0 cu. ft.	70 <sup>1</sup> / <sub>8</sub> " (178.1 cm)	68 <sup>1</sup> / <sub>2</sub> " (174.0 cm)	43" (109.2 cm)	44 <sup>1</sup> / <sub>2</sub> " (113 cm)	29 <sup>3</sup> / <sub>8</sub> " (74.6 cm)	28" (71.1 cm)	24 <sup>1</sup> / <sub>8</sub> " (61.3 cm)	35 <sup>3</sup> / <sub>8</sub> " (90.5 cm)
KBFS22EC (21.7 cu. ft.)	70 <sup>1</sup> / <sub>8</sub> " (178.1 cm)	68 <sup>1</sup> / <sub>8</sub> " (174.8 cm)	47 <sup>1</sup> / <sub>8</sub> " (119.5 cm)	52 <sup>1</sup> / <sub>8</sub> " (132.2 cm)	34 <sup>1</sup> / <sub>8</sub> " (87.5 cm)	31 <sup>5</sup> / <sub>8</sub> " (81.1 cm)	28 <sup>1</sup> / <sub>8</sub> " (71.4 cm)	32 <sup>5</sup> / <sub>8</sub> " (82.9 cm)
KBFS25EC (24.8 cu. ft.)	70 <sup>1</sup> / <sub>8</sub> " (178.1 cm)	68 <sup>1</sup> / <sub>8</sub> " (174.8 cm)	48 <sup>1</sup> / <sub>8</sub> " (122.1 cm)	53 <sup>1</sup> / <sub>8</sub> " (135 cm)	35 <sup>1</sup> / <sub>8</sub> " (90 cm)	32 <sup>5</sup> / <sub>8</sub> " (83.7 cm)	29 <sup>1</sup> / <sub>8</sub> " (74 cm)	35 <sup>3</sup> / <sub>8</sub> " (90.5 cm)
KRFC300E (20 cu. ft.)	70 <sup>1</sup> / <sub>8</sub> " (178.1 cm)	68 <sup>1</sup> / <sub>8</sub> " (174.9 cm)	43 <sup>1</sup> / <sub>8</sub> " (109.5 cm)	48 <sup>1</sup> / <sub>8</sub> " (122.2 cm)	30 <sup>1</sup> / <sub>2</sub> " (77.5 cm)	28" (71.1 cm)	24 <sup>1</sup> / <sub>8</sub> " (61.3 cm)	35 <sup>3</sup> / <sub>8</sub> " (90.8 cm)
KRFF302E (22.1 cu. ft.)	70 <sup>1</sup> / <sub>8</sub> " (178.1 cm)	68 <sup>1</sup> / <sub>8</sub> " (174.9 cm)	47 <sup>1</sup> / <sub>8</sub> " (122.2 cm)	52 <sup>1</sup> / <sub>8</sub> " (134.9 cm)	34 <sup>1</sup> / <sub>2</sub> " (90.2 cm)	32" (83.8 cm)	28 <sup>1</sup> / <sub>8</sub> " (74 cm)	32 <sup>1</sup> / <sub>8</sub> " (83.5 cm)
KRFF305E (25.2 cu. ft.)	70 <sup>1</sup> / <sub>8</sub> " (178.1 cm)	68 <sup>1</sup> / <sub>8</sub> " (174.9 cm)	48 <sup>1</sup> / <sub>8</sub> " (122.2 cm)	53 <sup>1</sup> / <sub>8</sub> " (134.9 cm)	35 <sup>1</sup> / <sub>8</sub> " (90.2 cm)	33" (83.8 cm)	29 <sup>1</sup> / <sub>8</sub> " (74 cm)	35 <sup>3</sup> / <sub>8</sub> " (91.8 cm)

## LOCATION REQUIREMENTS



To ensure proper ventilation for your refrigerator, allow for a ½" (1.25 cm) space on each side and at the top. Allow for 1" (2.54 cm) of space behind the refrigerator. If your refrigerator has an ice maker, make sure you leave some extra space at the back for the water line connections.

If you are installing your refrigerator next to a fixed wall, leave 2½" (6.3 cm) minimum on the hinge side (some models require more) to allow for the door to swing open.

**NOTE:** This refrigerator is intended for use in a location where the temperature ranges from a minimum of 55°F (13°C) to a maximum of 110°F (43°C). The preferred room temperature range for optimum performance, which reduces electricity usage and provides superior cooling, is between 60°F (15°C) and 90°F (32°C). It is recommended that you do not install the refrigerator near a heat source, such as an oven or radiator.