

# SAFETY

Your Broil King® built-in gas grill is a safe, convenient appliance when assembled, installed and used properly. As with all gas-fired products, however, certain safeguards must be observed. **Failure to follow these safeguards may result in serious injury or damage.** If you have questions concerning assembly, installation or operation, consult your dealer, gas appliance specialist, Gas Company or our direct customer service line at 1-800-265-2150 / info@omcbbq.com

## CAUTION

- **FOR OUTDOOR USE ONLY**
- **THIS APPLIANCE MUST NOT BE OPERATED UNATTENDED**
- **SPECIAL CARE MUST BE TAKEN TO KEEP SMALL CHILDREN AWAY FROM HEATED SURFACES**

Use caution when handling or transporting this product. Metal edges can be hazardous. Use appropriate gloves when lifting or handling.

## ELECTRICAL CAUTION

1. If any accessory is used on this appliance that requires an external electrical power source, the accessory when installed must be electrically grounded in accordance with local codes. In the absence of local codes, the following standards apply:

(U.S.A.) ANSI/NFPA No. 70-Latest Edition and  
(Canada) CSA C22.1 Canadian Electrical Code

2. Do not cut or remove the grounding prong from the plug.
3. Keep the electrical supply cord and fuel supply hose away from any heated surface.

## ⚠ WARNING

This product can expose you to chemicals including lead, which is known to the state of California to cause cancer, birth defects or other reproductive harm. **Wash your hands after handling this product.**

The burning of gas cooking fuel can expose you to chemicals including Carbon Monoxide, which is known to the state of California to cause cancer, birth defects or other reproductive harm. **To minimize exposure to these substances, always operate this unit according to the owner's manual, ensuring you provide good ventilation when cooking with gas.**

FOR MORE INFORMATION GO TO  
[WWW.P65WARNINGS.CA.GOV](http://WWW.P65WARNINGS.CA.GOV)

# INSTALLATION

1. In the U.S.A., this appliance must be installed in accordance with the local code and the relevant national code:

**ANSI Z223.1/NFPA 54 - Latest Edition National Fuel Gas Code and Latest Local Codes where Applicable**

2. In Canada, this appliance must be installed in accordance with the local code and the relevant CSA standards:

**CSA-B149.1 Natural Gas and Propane Installation Code**

3. **DO NOT** restrict the flow of air to the appliance.
4. Keep the area surrounding the appliance free of combustible materials, gasoline, and all flammable liquids and vapors.
5. This appliance is not intended to be installed in, or on, recreational vehicles and/or boats.

## CONFIGURATION OPTIONS

The built-in grill and all other accessory units should be on site before construction begins.

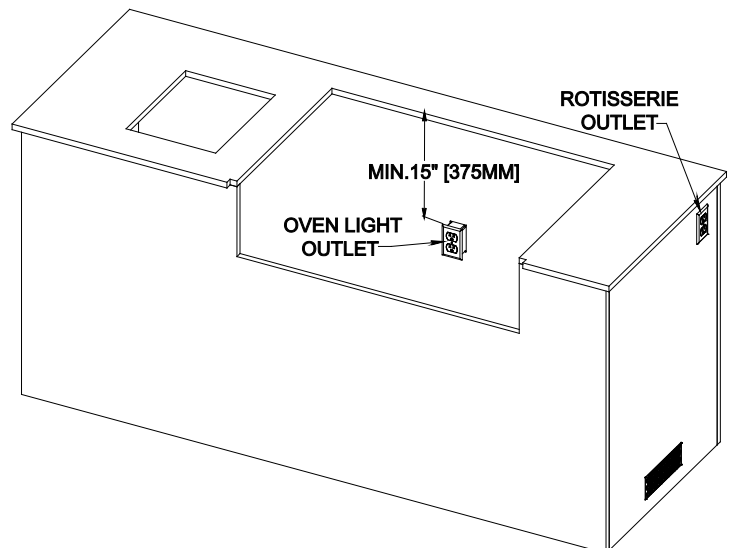
There are many options for designing your Outdoor Kitchen.

If the grill includes a Side Burner, remember to position the Side Burner to the left of the grill.

## ELECTRICAL OUTLETS

If a Rotisserie will be used, an electrical outlet for the Rotisserie should be positioned on the rear right side of the grill.

If internal lights are provided, a Ground Fault Interrupt (GFI) electrical outlet for the lights should be positioned inside the enclosure on the rear wall 15 inches (38cm) below the countertop.



# INSTALLATION

The installation should be done by a qualified professional.

## POSITIONING YOUR GAS GRILL

Ensure there is adequate ventilation for heat and smoke to dissipate.

### WHEN DETERMINING THE POSITION OF THE GRILL, GIVE THOUGHT TO:

- Exposure to wind
- Proximity to traffic
- Keeping gas lines and electrical connections as short as possible and away from heat sources

### LOCATE THE GRILL:

- To provide enough room to safely evacuate the area in the event of a fire
- In a well ventilated area

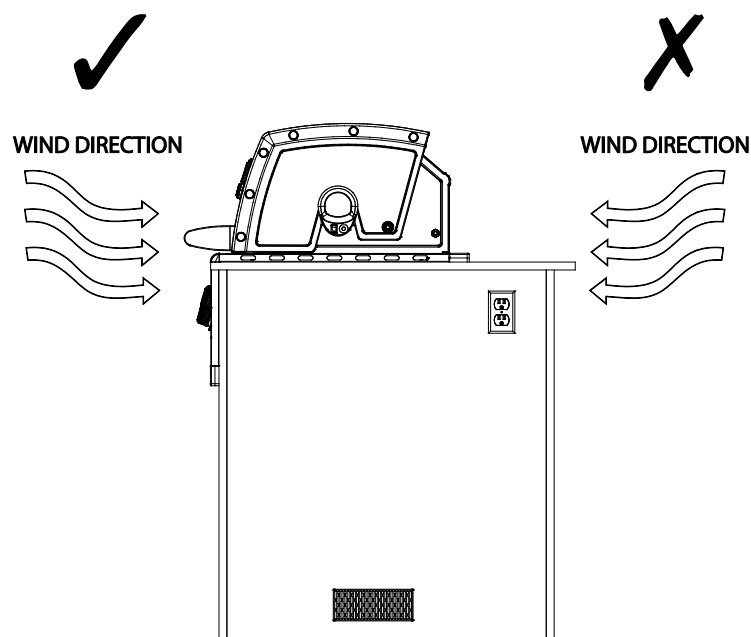
### NEVER LOCATE THE GRILL:

- In a garage, breezeway or shed, or any other enclosed area
- Under overhead unprotected combustible construction

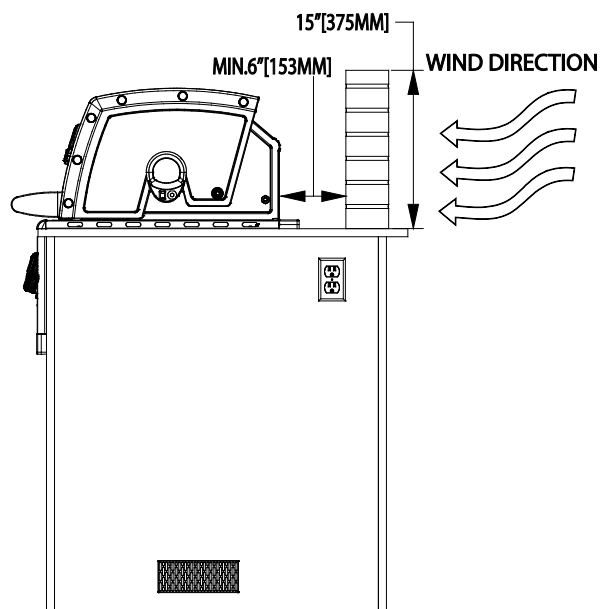
The grill is designed to take air in through the control panel area and send the exhaust products out through the exhaust gap at the rear of the hood.

If locating the grill in a windy area, locate the grill so the prevailing wind will blow air at the front of the grill. A light wind blowing at the front of the grill will:

- Assist the grill in venting hot air thru the back of the grill
- Assist in keeping smoke from blowing at someone who is cooking on the grill



If the grill is located where the prevailing wind is blowing at the rear of the grill, a windbreak will need to be installed. The windbreak should be constructed to prevent wind from entering the exhaust vent in the rear of the grill and comply with the clearances specified for combustible or non-combustible construction as outlined in these instructions.



**WARNING:** Wind blowing in the back of the grill or along the exhaust vent can disrupt the proper flow of air through the grill, leading to reduced performance, or in certain cases, cause excess heat buildup in the control panel area. This can lead to a burn hazard if the control panel surface and knobs become too hot to touch.

During high wind conditions, it is best not to use the grill. Damage to the grill resulting from use in windy conditions, such as melted knobs or igniter wires, or valve panel discoloration from heat build-up, are excluded from warranty coverage.

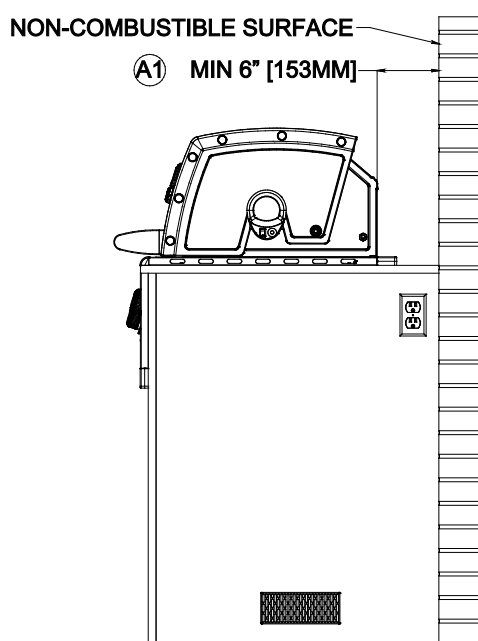
# INSTALLATION - CLEARANCES

## SIDE AND REAR WALL CLEARANCES

**NOTE: Installation requires a non-combustible countertop surface.** The countertop surface must be constructed from solid materials and must be level and smooth.

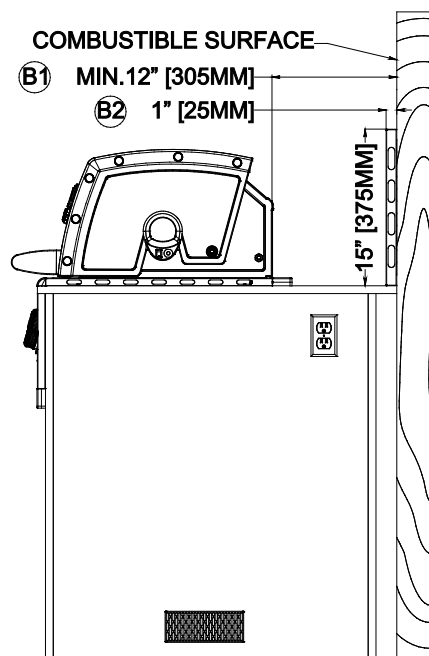
### A) Clearance between grill and non-combustible wall above the counter top surface

1. The grill must have a minimum of 6" [153mm] right, left and rear clearance from any non-combustible wall to allow for proper ventilation and space for lid to open completely.



### B) Clearance between grill and a protected combustible wall above the counter top surface

1. The grill must have a minimum of 12" [305mm] right, left, and rear clearance from the protected combustible wall.
2. A protected combustible wall has a 1" (25mm) ventilated space between a non-combustible surface and the combustible surface extending 15" (375mm) from the counter top surface.



## DEFINITION OF COMBUSTIBLE MATERIAL

Any building structure or decorative structure made of wood, compressed paper, plant fibers, vinyl/plastic or other materials that are capable of transferring heat or being ignited and burned. Such material shall be considered combustible even though flame-proofed, fire-retardant treated or surface-painted, or plastered.

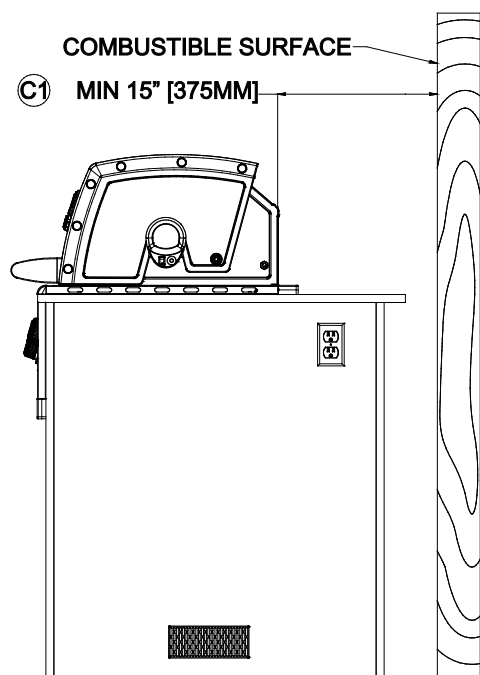
## DEFINITION OF NON-COMBUSTIBLE MATERIAL

Material which is not capable of being ignited and burned, such as materials consisting entirely of, or a combination of, steel, iron, brick tile, concrete, slate, and plaster.

# INSTALLATION - CLEARANCES

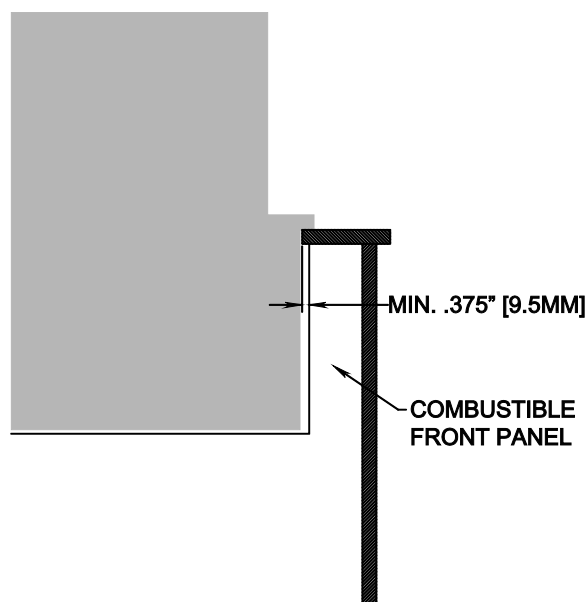
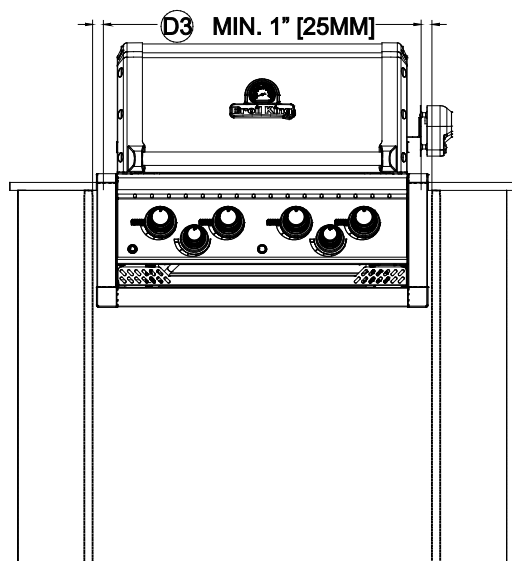
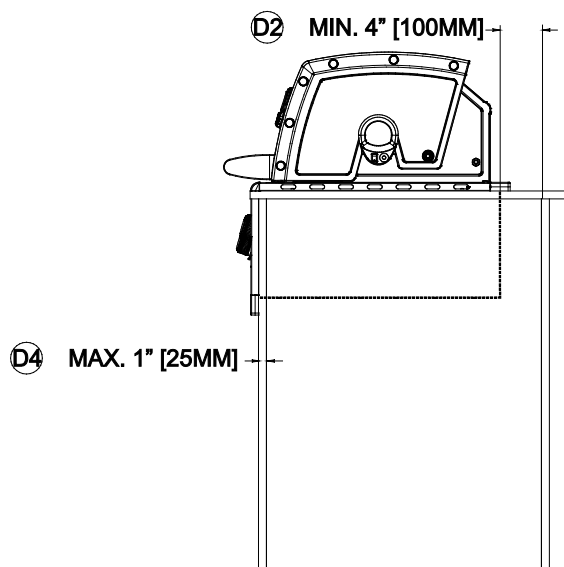
## C) Clearance between grill and combustible wall above the counter top surface

1. The grill must have a minimum of 15" [375mm] right, left, and rear clearance from any combustible wall above the non-combustible counter top surface.



## D) Clearance between the grill and combustible or non-combustible construction below the counter top surface.

1. "0" clearance is required below the counter top to non-combustible construction.
2. 4" (100) mm clearance is required below the countertop to combustible construction to the rear.
3. 1" (25) mm clearance is required below the countertop to combustible construction to the left and right sides.
4. 3/8" (9.5mm) clearance is required below the countertop to a combustible front wall of the enclosure provided the front wall of the enclosure is less than 1" (25) mm thick.



# INSTALLATION - CLEARANCES

**WARNING:** Do not install or use the grill under unprotected combustible construction without a fire safe ventilation system.

## OVERHEAD CONSTRUCTION AND EXHAUST HOOD REQUIREMENTS

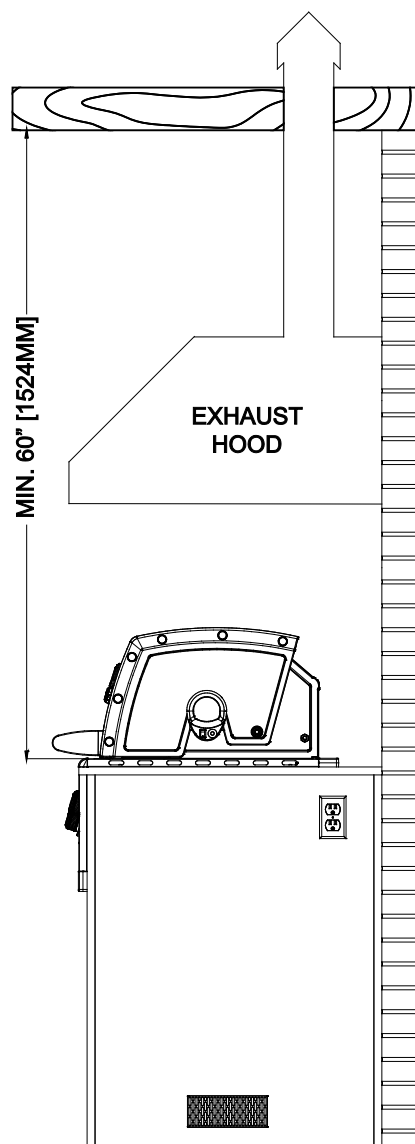
A minimum 60" [1524mm] clearance is required between the grilling surface and the overhead construction.

When installed under combustible overhead construction, the area above the cooking surface of the grill must be covered with an exhaust hood. The exhaust hood provides the protection for the combustible overhead construction.

When installed under overhead non-combustible construction, an exhaust hood is highly recommended.

## EXHAUST HOOD

When using an exhaust hood, the area above the cooking surface of the grill must be covered with a hood larger than the cooking area of the grill, and with a minimum of 1200CFM (cubic feet per minute) for proper outdoor application.



# INSTALLATION - ENCLOSURES

## ENCLOSURES FOR THE GRILL AND LP GAS CYLINDER

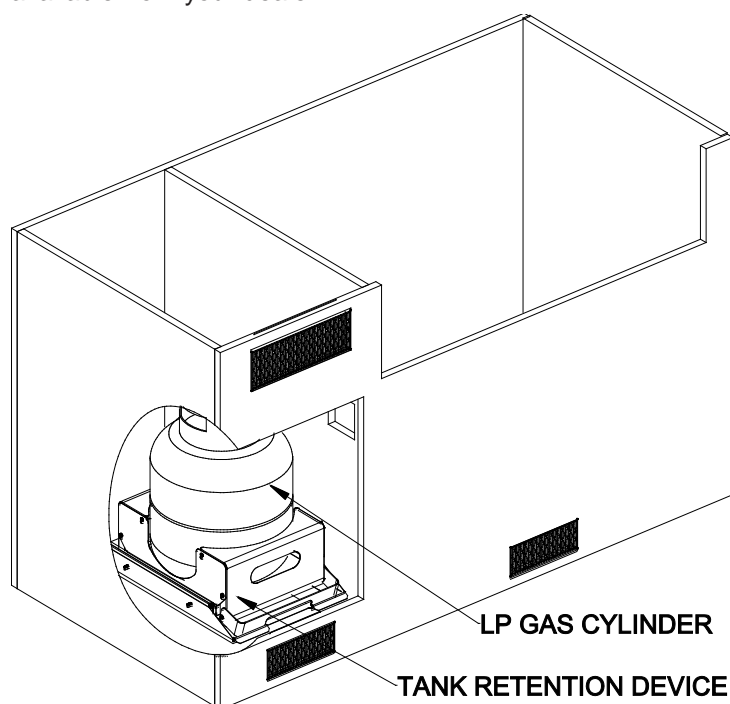
Grill and LP Gas Cylinder enclosures must meet the requirements for venting, cylinder retention, and separation of the LP gas cylinder from a heat source as outlined in the **ANSI Standard for Outdoor Cooking Gas Appliances, Z21.58/CSA 1.6 for LP enclosures.**

There are 2 types of enclosures:

1. Grill enclosure without an LP gas cylinder.
2. Grill enclosure with an LP gas cylinder.

**WARNING: Do not store a spare cylinder in an enclosure.**

Enclosures for LP gas cylinders must be fitted with a cylinder retention device. A Broil King® cylinder retention device is available from your dealer.

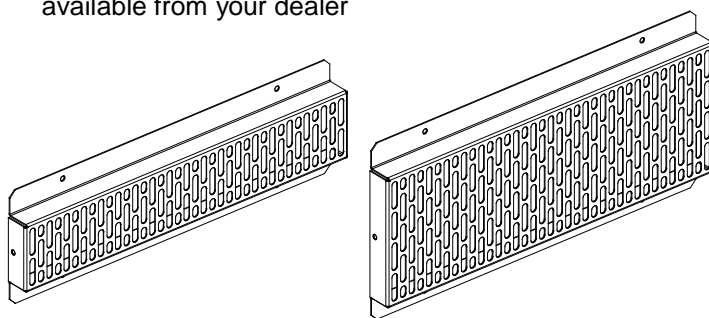


**WARNING: Vents are required in the enclosures to provide ventilation in the event of a gas leak.**

Ventilation reduces moisture and provides cooling in the enclosures.

Note: The drawings are for reference only.

- Each vent shall have minimum openings to allow the entrance of a 1/8" (3.2mm) diameter rod
- Make sure the vents are not blocked by interior supports.
- Keep vents clean and clear of obstructions
- Vent(s) can be located in low visibility areas and should be protected by screens to prevent rodents and insects from entering the enclosure
- Vents that provide a minimum free area of 10 square inches (65 square cm) and vents that provide a minimum free area of 20 square inches (130 square cm) are available from your dealer



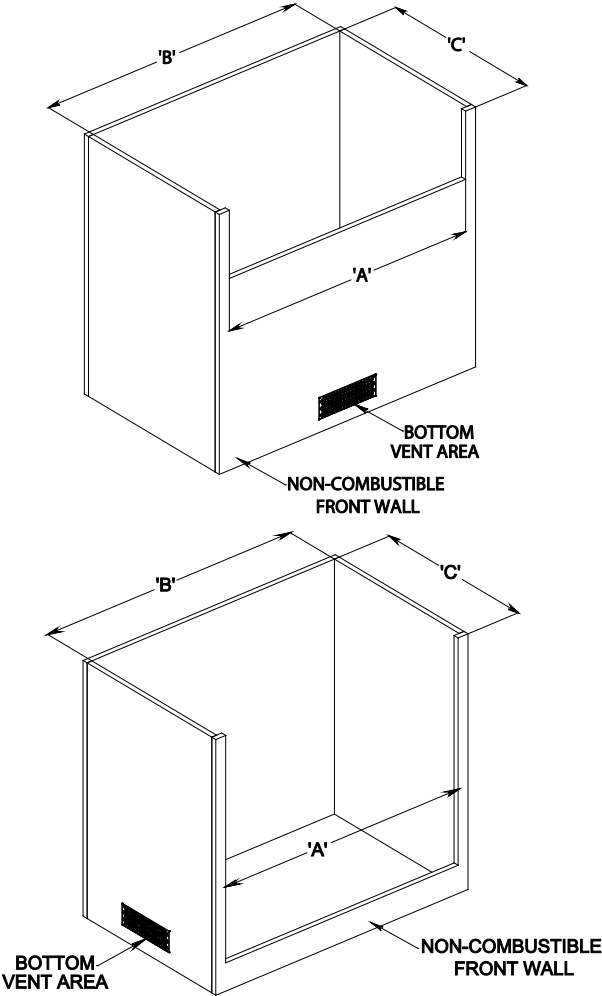
- Gas supply shut off valves must be readily accessible for hand operation
- A door on the enclosure to gain access to the cylinder valve is acceptable provided it is non-locking and can be opened without the use of tools
- A minimum clearance of 2 inches (51mm) is required between the floor of an lp gas cylinder enclosure and the ground
- If a gas leak should occur or the lp gas cylinder should vent in the lp gas cylinder enclosure, the gas should not be allowed to vent or migrate into empty or "hollow" areas of the enclosure

**WARNING: Ventilation openings should only communicate with the outside of the enclosure, so that the gas can dissipate outside of the enclosure.**

# INSTALLATION - ENCLOSURES

## GRILL ENCLOSURE WITHOUT AN LP GAS CYLINDER

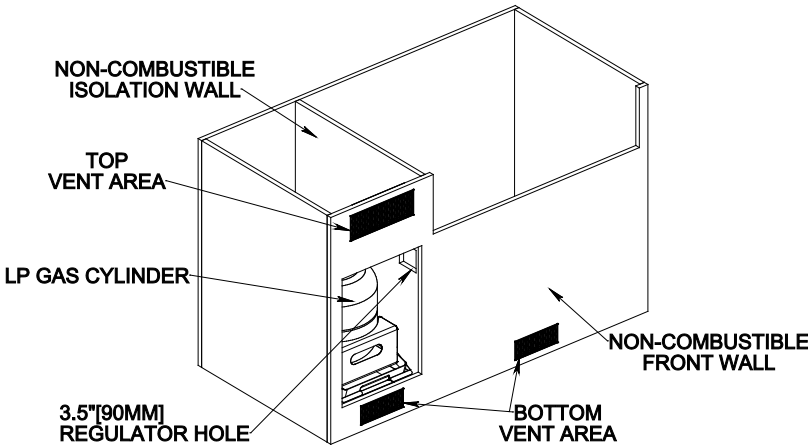
- Ventilation totaling a minimum free area of 10 square inches (65 square cm) is provided at the top of the grill through the side trim and rear trim of the grill
- Ventilation totaling a minimum free area of 5 square inches (13 square cm) is provided at the bottom of the grill through the bottom trim of the grill
- Ventilation totaling a minimum free area of 10 square inches (33 square cm) is required at the bottom of the enclosure
- Position the bottom edge of vent 1" (25mm) or less from the floor level and within 5" (127mm) of the bottom of the enclosure
- Be careful not to obstruct these vents



GRILL ENCLOSURE DIMENSIONS				
		420 / 490	590	XL
A	MIN	30 5/16" [770mm]	36 11/16" [932mm]	44" [1118mm]
	MAX	30 15/32" [774mm]	36 27/32" [936mm]	44 5/32" [1122mm]
B	MIN	31 3/8" [797mm]	37 3/4" [959mm]	45 1/8" [1146mm]
C	MIN	27" [686mm] with surface mount GFCI receptacle		

## GRILL ENCLOSURE WITH AN LP GAS CYLINDER

- A remote LP gas cylinder enclosure is required for installations that use an LP gas cylinder
- Construct enclosure with four sides, a top and a bottom with minimum inside dimensions of:
  - height – 20" (50cm)
  - width – 15" (38.5cm)
  - depth – 14" (36cm)
- Enclosure must not allow space for a spare tank to be stored inside the enclosure
- Ventilation totaling a minimum free area of 20 square inches (130 square cm) is required at the top on the exposed exterior wall of the enclosure. (As per ANSI Standard Z21.58/CSA 1.6)
- Ventilation totaling a minimum free area of 10 square inches (65 square cm) is required at the bottom on the exposed exterior wall of the enclosure. (As per ANSI Standard Z21.58/CSA 1.6)
- Position the top vent(s) within 5" (127mm) of the top of the enclosure
- Position the bottom vent 1" (25mm) or less from the floor level and within 5" (127mm) of the bottom of the enclosure
- The remote LP gas cylinder enclosure must isolate the LP gas cylinder from the burner compartment, so that it provides shielding from radiation, be a flame barrier and provide protection from foreign material such as hot drippings



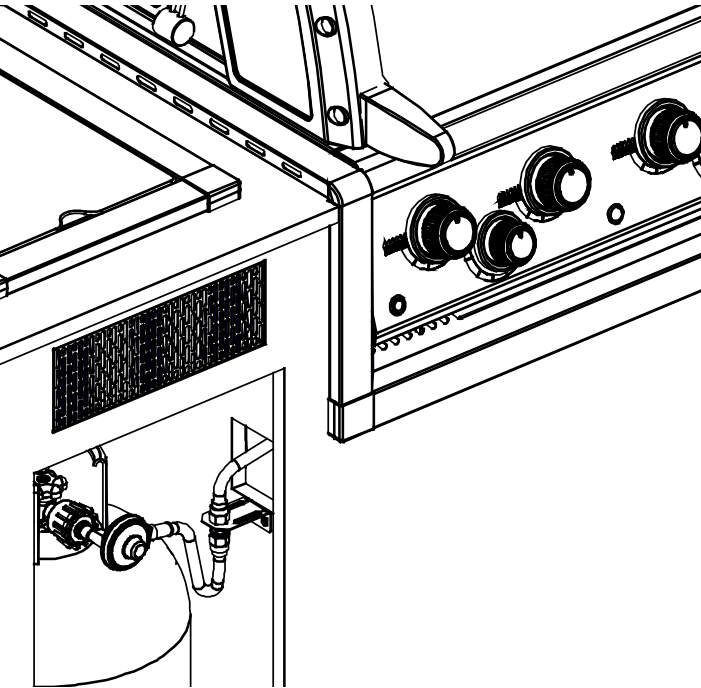
**DANGER**

Failure to build a remote LP gas cylinder enclosure for a single 20 lb. LP gas cylinder only, following the requirements for ventilation, cylinder retention and separation of the LP gas cylinder from a heat source, listed in the ANSI Standard for Outdoor Cooking Gas Appliances, Z21.58/CSA 1.6, could be dangerous, and result in a fire or an explosion causing serious bodily injury or death and damage to property.

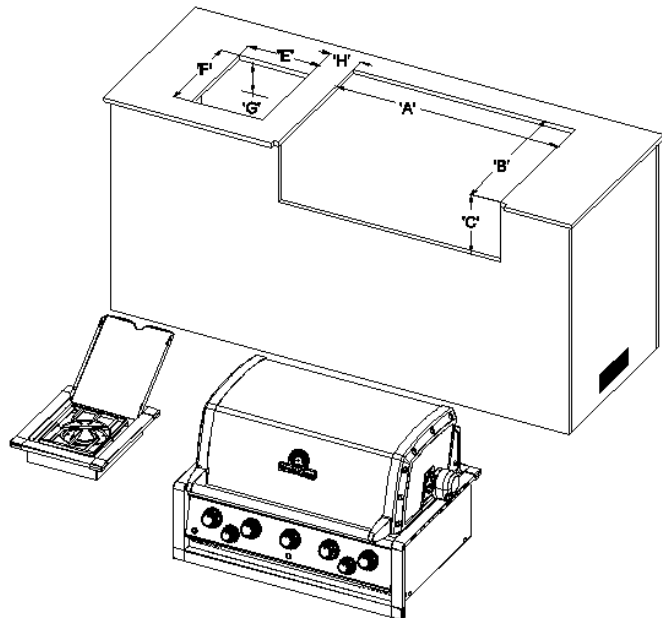
# INSTALLATION – CUT OUT DIMENSIONS

## SPECIFICATION FOR CONNECTING TO A 20 lb. LP GAS CYLINDER

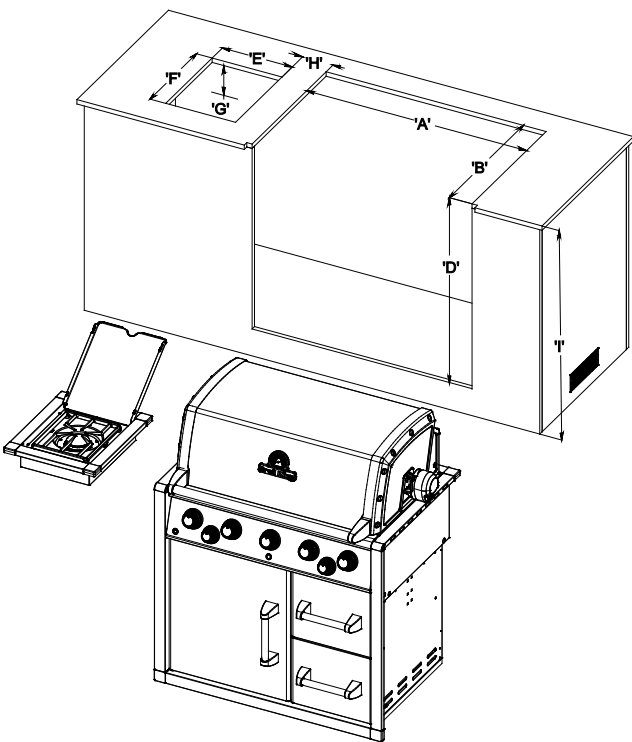
- A 14" (356 mm) corrugated hose with a 3/8" SAE 45 degree fitting is connected to the manifold of the grill
- Do not use pipe sealant on the 3/8" SAE 45 degree fitting
- The 3/8" SAE 45 degree fitting must be firmly attached to rigid permanent construction
- If you choose to use a corrugated gas hose other than the one supplied, the connector must comply with the Standard for Connectors for Gas Appliances, ANSI Z21.24 • CSA 6.10



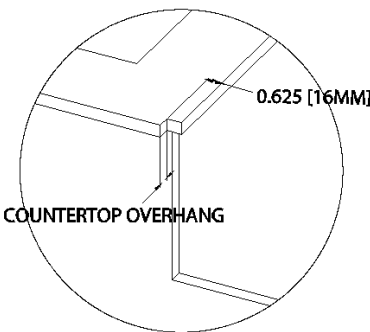
## COUNTERTOP CUT OUT DIMENSIONS – BUILT-IN



## COUNTERTOP CUT OUT DIMENSIONS – BUILT-IN WITH CABINET



## COUNTERTOP NOTCH DETAIL



ISLAND CUTOUT DIMENSIONS			
	490	590	XL
A	MIN. 29 <sup>7</sup> / <sub>8</sub> " [758mm] MAX. 30 <sup>1</sup> / <sub>8</sub> " [765mm]	MIN. 36 <sup>1</sup> / <sub>4</sub> " [920mm] MAX. 36 <sup>1</sup> / <sub>2</sub> " [927mm]	MIN. 43 <sup>5</sup> / <sub>8</sub> " [1108mm] MAX. 43 <sup>7</sup> / <sub>8</sub> " [1115mm]
B	MIN. 23 <sup>1</sup> / <sub>8</sub> " [590mm] – MAX. 23 <sup>3</sup> / <sub>8</sub> " [595mm]		
C	MIN. 10 <sup>29</sup> / <sub>32</sub> " [280mm] – MAX. 11 <sup>1</sup> / <sub>8</sub> " [285mm]		
D	MIN. 31 <sup>1</sup> / <sub>2</sub> " [800mm] – MAX. 31 <sup>3</sup> / <sub>4</sub> " [810mm]		
E	MIN. 11 <sup>1</sup> / <sub>2</sub> " [290mm] – MAX. 11 <sup>3</sup> / <sub>4</sub> " [300mm]		
F	MIN. 14 <sup>1</sup> / <sub>2</sub> " [370mm] – MAX. 14 <sup>3</sup> / <sub>4</sub> " [375mm]		
G	MINIMUM 4 <sup>1</sup> / <sub>2</sub> " [115mm]		
H	MINIMUM 3" [75mm] – MAXIMUM 7" [180mm]		
I	MINIMUM 34" [865mm]		