FIREMAGIC

AURORA

BUILT-IN OUTDOOR COMBO GRILL

A830i series

INSTALLATION AND OWNER'S MANUAL

INSTALLER: Leave these instructions with consumer.
CONSUMER: Retain for future reference.

IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION OR USE.

WARNINGS AND SAFETY CODES

⚠ DANGER:

IF YOU SMELL GAS:

- Shut off gas to the appliance.
- Extinguish any open flame.
- Open lid.
- If odour continues, keep away from the appliance and ***immediately*** call your gas supplier or the fire department.

⚠ WARNING:

- Do not store or use gasoline or other flammable liquids or vapours in the vicinity of this or any other appliance.
- An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

⚠ WARNING:

Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. For proper installation, refer to the installation instructions. For assistance or additional information, consult a qualified professional service technician, service agency, or the gas supplier.

ONLY TO BE USED OUTDOORS

CODE AND SUPPLY REQUIREMENTS: Installation must conform with local codes or, in the absence of local codes, with either the *National Fuel Gas Code*, ANSI 2223.1/NFPA 54, or the *Natural Gas and Propane Installation Code*, CSA B149.1, or the *Propane Storage and Handling Code*, CSA B149.2, as applicable.

The outdoor cooking gas appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).

The outdoor cooking gas appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

This appliance is designed as an <u>attended appliance</u>. <u>DO NOT</u> leave this appliance burning when unattended.

If an external electrical source is utilized, the outdoor cooking gas appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code*, ANSI/NFPA 70, or the *Canadian Electrical Code*, Part I, CSA C22.1.

Keep any electrical supply cord and the fuel supply hose away from any heated surfaces.

Proper operation of your grill requires prompt and periodic maintenance. See the SERVICING AND CLEANING section for details.

Cooking Grid U.S. Patent Nos. D857,453 D862,984

PFS® C US

Certified to: ANSI Z21.58 CSA 1.6

FIREMAGIC

AURORA

GRIL COMBO EXTÉRIEUR INTÉGRÉ

Série A830i

INSTALLATION ET LE MANUEL DU PROPRIÉTAIRE

INSTALLATEUR: laissez ces instructions au consommateur.
CONSOMMATEUR: À conserver pour référence future.

IMPORTANT: LIRE ATTENTIVEMENT CES INSTRUCTIONS AVANT DE COMMENCER L'INSTALLATION OU L'UTILISATION.

AVERTISSEMENTS ET CODES DE SÉCURITÉ

⚠ DANGER:

SI VOUS SENTEZ DU GAZ:

- Coupez le gaz de l'appareil.
- Éteignez toute flamme nue.
- Ouvrez le couvercle.
- Si l'odeur persiste, éloignez-vous de l'appareil et appelez ***immédiatement*** votre fournisseur de gaz ou les pompiers.

À UTILISER UNIQUEMENT À L'EXTÉRIEUR

EXIGENCES EN MATIÈRE DE CODE ET D'APPROVISIONNEMENT: L'installation doit être conforme aux codes locaux ou, en l'absence de codes locaux, soit au *National Fuel Gas Code*, ANSI 2223.1/ NFPA 54, soit au *Natural Gas and Propane Installation Code*, CSA B149.1, soit au *Code de stockage et de manipulation du propane*, CSA B149.2, selon le cas.

L'appareil de cuisson au gaz extérieur et son robinet d'arrêt individuel doivent être déconnectés du système de tuyauterie d'alimentation en gaz pendant tout essai de pression de ce système à des pressions d'essai supérieures à 1/2 psi (3,5 kPa).

L'appareil de cuisson au gaz extérieur doit être isolé du système de tuyauterie d'alimentation en gaz en fermant son robinet d'arrêt manuel individuel pendant tout test de pression du système de tuyauterie d'alimentation en gaz à des pressions d'essai égales ou inférieures à 1/2 psi (3,5 kPa).

Le bon fonctionnement de votre gril nécessite un entretien rapide et périodique. Voir la section ENTRETIEN ET NETTOYAGE pour plus de détails.

⚠ ATTENTION:

- N'entreposez pas et n'utilisez pas d'essence ou d'autres liquides ou vapeurs inflammables à proximité de cet appareil ou de tout autre appareil.
- Une bouteille de GPL non connectée pour utilisation ne doit pas être stockée à proximité de cet appareil ou de tout autre appareil.

⚠ ATTENTION:

Une installation, un réglage, une modification, un entretien ou une maintenance inappropriés peuvent causer des blessures ou des dommages matériels. Pour une installation correcte, reportez-vous aux instructions d'installation. Pour obtenir de l'aide ou des informations supplémentaires, consultez un technicien de service professionnel qualifié, une agence de service ou le fournisseur de gaz.

Cet appareil est conçu comme un <u>appareil surveillé</u>. <u>NE PAS</u> laisser cet appareil brûler sans surveillance.

Si une source électrique externe est utilisée, l'appareil à gaz de cuisson extérieur, lorsqu'il est installé, doit être mis à la terre conformément aux codes locaux ou, en l'absence de codes locaux, avec le *National Electrical Code*, ANSI/NFPA 70, ou le *Canadian Electrical Code*. Code, Partie I, CSA C22.1. Gardez tout cordon d'alimentation électrique et le tuyau d'alimentation en carburant à l'écart de toute surface chauffée.

Grille de cuisson US Numéros de brevet D857,453 D862,984

PFS C US

Certifié à : ANSI Z21.58 CSA 1.6

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⚠AVERTISSEMENTS

Avertissements généraux :

- Ce barbecue est pour ultilisation à l'extérieur seulement. Si l'appareil est entreposé à l'intérieur, enlever les bouteilles et les laisser à l'extérieur.
- Ne pas ranger le gril immédiatement aprés l'avoir utilisé. le laisser refroidir avant de le déplacer ou de la ranger. Le non respect de cette mesure de sécurité pourrait entraîner un incendie causant des dommages à la propriété, des blessures ou la mort.
- Ne pas utiliser cet appareil sous une surface combustible.
- Ne pas utiliser cet appareil sous un auvent. Le non respect de cette mesure de sécurité pourrait entraîner un incendie ou des blessures.
- Dégagement minimal entre les parois latérales et l'arriére de l'appareil et la construction combustible (45.7 cm à partir des parois latérales et 45.7cm à partir de l'arriére).
- Le régulareur de pression de gaz prévu avec cet appareil de cuisson à gaz pour l'extérieur doit être utilisé. Ce régulateur est réglé pour une pression de sortie de 5 pouces de colonne de l'eau pour le gaz naturel, et 10 pouces pour le propane.
- LE RÉGULATEUR INCLUS D'APPAREILS EST ÉVALUÉ POUR LE MAXIMUM DE 1/2 (LIVRES PAR POUCE CARRÉ). SI VOTRE OFFRE DE GAZ EST 1/2 PLUS GRAND QUE (LIVRES PAR POUCE CARRÉ), UN RÉGULATEUR ADDITIONNEL DOIT ÊTRE INSTALLÉ AVANT LE BARBECUE. VOIR LA SECTION DE CONDITIONS D'OFFRE DE GAZ POUR LA PRESSION APPROPRIÉE D'OFFRE DE GAZ.
- Ne couvrez jamais la surface entière de cuisine ou de gril de gauffreuses ou de casseroles. La surchauffe se produira et les brûleurs ne seront pas très performants quand la chaleur de combustion est emprisonnée au-dessous de la surface à cuire.
- Ne pulvérisez jamais l'eau sur une unité chaude de gaz, comme ceci peut endommager des composants de porcelaine ou de fer de fonte.

Avertissements de propane :

- Une fuite de GPL peut causer une incendie ou une explosion si enflammée entraînant des blessures corporelles graves ou la mort.
- Communiquez avec le fournisseur de GPL pour les réparations ou pour disposer de qules bouteille ou du GPL non utilisé.

INSTALLATION, OPERATION, AND SAFETY INFORMATION

1. Wear gloves and use extreme caution whenever installing and handling this product and its accessories as certain components have sharp edges that can cause personal injury.
2. The outdoor appliance and surrounding area MUST remain clear of flammable substances such as gasoline, yard debris, wood, etc. Maintain a minimum horizontal clearance of 18" (in all directions) from combustible materials/items.
3. Do not block the 1" front air inlet along the bottom of the control panel. See the COMBUSTION AIR AND COOLING AIRFLOW section under INSTALLATION REQUIREMENTS for details.
4. **This unit must be installed so that the required vent openings and surrounding area of the enclosure remain clear and free at all times. See the ENCLOSURE REQUIREMENTS section for details.**
5. **When using propane gas: the propane cylinder, regulator, and rubber hose must be in a location not subject to temperatures above 125° F (51° C).**
6. The back burner cover or infrared burner cover (if equipped) must be removed before using the burner.
7. Before each use, ensure the flames on each burner burn evenly along the entire burner with a steady flame (mostly blue). If burner flames are not normal, check and clean the orifice and burner/venturi tubes for insects and insect nests. A clogged tube can lead to a fire beneath the unit. A proper flame pattern will ensure safe operation and optimal performance. Adjust the air shutter as needed to achieve proper flame pattern (see AIR SHUTTER ADJUSTMENT/BURNER FLAME INSPECTION section, under SERVICING AND CLEANING for details).
8. The in-line gas valve or gas cylinder valve must always be shut OFF when the unit is not in use.
9. Whenever reconnecting any wires, apply a small amount of dielectric grease to the male connector, then make the connection. This will ensure conductivity and prevent moisture from affecting the contact.
10. All surfaces of the unit become HOT during use. Excercise caution when using this unit, especially when adding charcoal or cranking the charcoal pan up or down.
11. **Adults MUST be present when this gas appliance is operating. This appliance MUST NOT be left burning when unattended.**
12. **Do not store combustible materials in the enclosure directly beneath the appliance.**

⚠ WARNING

NEVER cover slots, holes, or passages in the oven bottom or cover an entire rack with material such as aluminum foil. Doing so blocks air flow through the oven and may cause carbon monoxide poisoning.

Aluminum foil linings may trap heat causing a fire hazard.

CAUTION: FOR YOUR SAFETY, you must provide openings in the enclosure for replacement air and ventilation (in case of possible leakage from gas connections or propane cylinders). Failure to do so may result in a fire or explosion causing property damage, bodily injury, or death. See the ENCLOSURE REQUIREMENTS section for details.

IMPORTANT: IN THE EVENT OF A GREASE FIRE, IMMEDIATELY SHUT OFF THE MAIN GAS VALVE TO THE UNIT. KEEP THE LID OPEN AND ALLOW THE FIRE TO EXTINGUISH ITSELF. KEEP AT A SAFE DISTANCE. A THOROUGH INSPECTION BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN SHOULD BE CONDUCTED BEFORE FUTURE USE OF YOUR UNIT. THE SERVICE TECHNICIAN WILL CHECK THE SYSTEM FOR GAS LEAKS AND WILL CHECK ALL ELECTRICAL WIRING FOR DAMAGE. ALL GAS LEAKS AND WIRING MUST BE REPAIRED PRIOR TO FUTURE USE.

WARNING: NEVER cover more than 75% of the cooking or grill surface with griddles, pots, or pans. Overheating will occur, and burners will not perform properly when combustion heat is trapped below the cooking surface.

The unit serial number tag can be found affixed to the grill body behind the control panel (on an aluminum tag) and on the underside of the drip tray handle (gas grill side). It is recommended that the drip tray first be removed and cleaned / emptied of its contents, then turned over to view. The unit rating label is located inside of the control panel.

ELECTRICAL CONNECTIONS

A **120VAC (15 AMP minimum) GFCI GROUNDED three-wire receptacle** (not included) is required within the vicinity of the unit to provide power to it. The GFCI receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.

- **Observe the National Electric Code and all local codes.**
- **Verify proper polarity of the receptacle.**
- **If an extension cord is used, ensure it is a three-wire GROUNDED cord that is rated for the power of the equipment, and is approved for outdoor use with a W-A marking. DO NOT use two-prong adapters.**
- **DO NOT TAMPER WITH THE EXTENSION CORD OR THE UNIT POWER-SUPPLY CORD.**

Important: ONLY REPLACE THE INTERIOR OVEN LIGHTS WITH 12V / 10 WATT HALOGEN BULB(S).

GAS SAFETY INFORMATION

WHEN OPERATING THIS GAS APPLIANCE, ALL INSTRUCTIONS AND WARNINGS MUST BE OBSERVED. FAILURE TO DO SO MAY RESULT IN A FIRE OR EXPLOSION CAUSING PROPERTY DAMAGE, BODILY INJURY, OR DEATH.

WARNING

This gas appliance and its enclosure MUST be plumbed and vented in accordance with local building and safety codes and should be approved by local code enforcement officials. This appliance MUST be installed and operated according to the information below.

FAILURE TO PROPERLY VENT THE ENCLOSURE MAY RESULT IN A FIRE OR EXPLOSION CAUSING PROPERTY DAMAGE, BODILY INJURY, OR DEATH.

A leaking gas connection or valve unintentionally left open will create a hazard.

WHEN USING PROPANE GAS

- **Propane gas** (also known as **L.P. gas**) is heavier than air and will accumulate or pool in an inadequately vented enclosure or recessed area.
- If a pool of **propane gas** is ignited, an explosion will occur. Adequate venting at the floor level, or the lowest point where gas could accumulate, will eliminate this danger.

  Refer to the **ENCLOSURE REQUIREMENTS** section.
  Observe all local codes.
- DO NOT store a spare propane-gas cylinder under or near the enclosure.

WHEN USING NATURAL GAS

- **Natural gas** is lighter than air and will accumulate at the top of an inadequately vented enclosure.
- If an accumulation of **natural gas** is ignited, an explosion will occur. Adequate venting at the top of the enclosure, or the highest point where gas could accumulate, will eliminate this danger.

  Refer to the **ENCLOSURE REQUIREMENTS** section.
  Observe all local codes.

INSTALLATION SAFETY GUIDELINES

THIS UNIT MUST BE INSTALLED SO THAT THE REQUIRED VENT OPENINGS AND SURROUNDING AREA OF THE ENCLOSURE REMAIN CLEAR AND FREE AT ALL TIMES. See the ENCLOSURE REQUIREMENTS section for details.

CAUTION: FOR YOUR SAFETY, you must provide openings in the enclosure for replacement air and ventilation (in case of possible leakage from gas connections or propane cylinders). Failure to do so may result in a fire or explosion causing property damage, bodily injury, or death. See the ENCLOSURE REQUIREMENTS section for details.

The gas cylinder, regulator, and rubber hose must be in a location not subject to temperatures above 125° F (51° C).

IF A PROPANE CYLINDER IS INSTALLED INSIDE OF THE ENCLOSURE, THE GUIDELINES FOUND IN THE **ENCLOSURE REQUIREMENTS** SECTION MUST BE FOLLOWED.

OPERATING THE UNIT SAFELY AND CORRECTLY

Every time you use the unit, **make sure that:**

1. The area around the unit is clear and free from combustible materials, gasoline and flammable vapours and liquids.
2. There is no blockage of the airflow through the vent openings located on the enclosure.
3. The hose is inspected (if applicable). See SAFE USE & MAINTENANCE OF PROPANE-GAS CYLINDERS section.

DO NOT store any combustible materials, gasoline, and any other flammable vapours/liquids in the vicinity of the unit. Provide adequate clearance for servicing and operation.

SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS

IMPORTANT FOR YOUR SAFETY
READ AND FOLLOW ALL WARNINGS PROVIDED WITH THE PROPANE-GAS CYLINDER.
When operating this appliance with a propane-gas cylinder, these instructions and warnings **MUST** be observed.
FAILURE TO DO SO MAY RESULT IN A SERIOUS FIRE OR EXPLOSION.

For requirements related to ventilation, L.P. Cylinders, and the enclosure, see the ENCLOSURE REQUIREMENTS section.

CYLINDER/CONNECTOR REQUIREMENTS

a. Propane-gas cylinders, valves, and hoses must be maintained in good condition and inspected before each use of appliance. They must be replaced if there is any visible damage. If hose is cut or shows excessive abrasion or wear, it must be replaced before using appliance (see **e**.).

b. This unit, when used with a cylinder, should be connected to a standard 5-gallon (20 lb.) propane-gas cylinder equipped with a listed overfilling prevention device. The device has been required on all cylinders sold since October 1,1998, to prevent overfilling.

c. Cylinder dimensions should be approximately 12" (30.5 cm) in diameter and 18" (45.7 cm) high. Cylinders must be constructed and marked in accordance with the U.S. Department of Transportation (D.O.T.) 6 S H F L ¿ F D W L R Q V R U *LP-Gas Cylinders,* or the Standard for *Cylinders, Spheres,* D Q G 7 X E H V I R U 7 U D Q V S R U W D W L R Q R I 'D Q J H U R X V *Commission,* CAN/CSA-B339, as applicable.

d. The cylinder used must include a collar to protect the cylinder valve. The cylinder supply system must be arranged for vapour withdrawal. See Fig. 7-1.

e. When used with a cylinder, the gas supply system must be used with a pressure regulator. The pressure regulator and hose assembly **(not supplied)** used must match the specification for Type I by ANSI Z 21.58/CGA 1.6 and must comply with UL 144 as a part of the self-contained LP gas supply system (see Fig. 7-1).

f. The propane-gas cylinder valve must be equipped with a cylinder connection device, described as Type I in the standard defined in paragraph **e**. above. This device is commonly described as an Acme thread coupler.

g. If the cylinder comes with a dust plug, place it on the cylinder valve outlet whenever the cylinder is not in use. Only install the type of dust cap on the cylinder valve outlet that is provided with the cylinder valve. Other types of caps or plugs may result in leakage of propane.

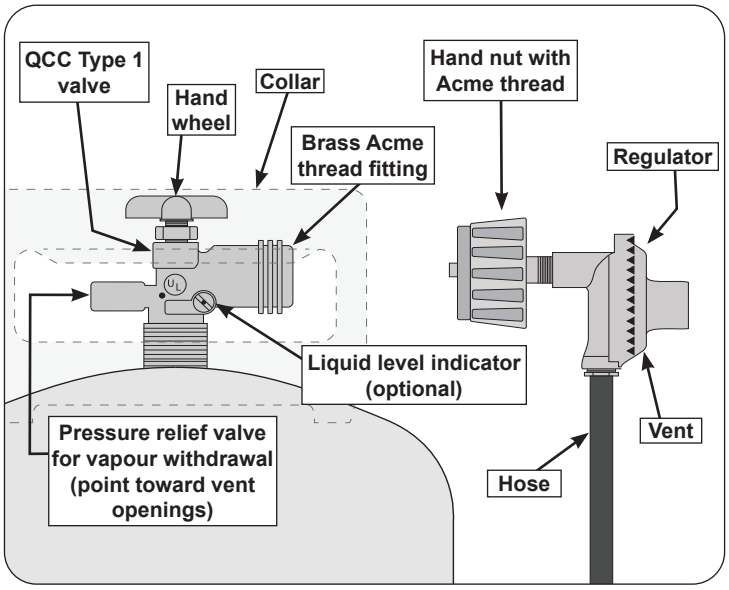


Fig. 7-1 Type I Acme thread coupler

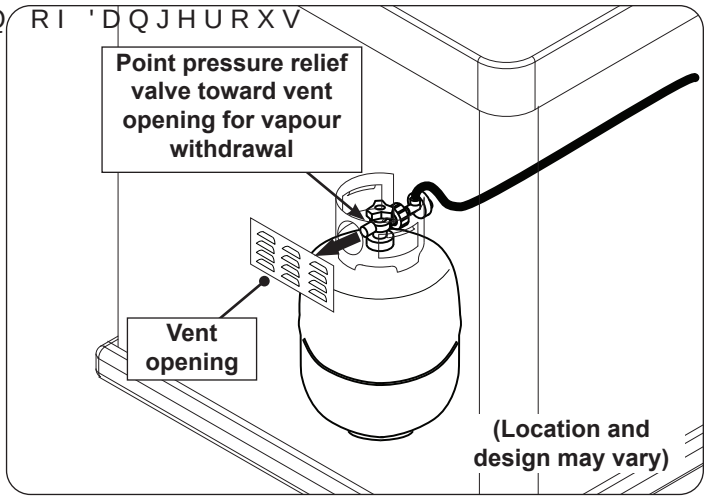


Fig. 7-2 Vapour withdrawal detail

COUPLER OPERATION

To connect the regulator/hose assembly to the propane-gas cylinder valve fitting: Press the hand nut on the regulator over the Acme thread fitting on the cylinder valve. Turn the hand nut clockwise to engage the threads and tighten until snug. The use of pliers or a wrench should not be necessary. Only cylinders marked “propane” may be used.

To disconnect: Turn the hand nut counterclockwise until detached (Fig. 7-1).

UTILISATION SÛRE ET ENTRETIEN DES CYLINDRES DE GAZ DE PROPANE

IMPORTANT POUR VOTRE SÛRETÉ

LISEZ ET SUIVEZ TOUS LES AVERTISSEMENTS ÉQUIPÉS DE VOTRE CYLINDRE DE GAZ DE PROPANE.

En actionnant cet appareil avec un cylindre de gaz de propane ON DOIT observer ces instructions et avertissements.

LE MANQUE DE FAIRE AINSI PEUT AVOIR COMME CONSÉQUENCE UNE INCENDIE OU UNE EXPLOSION SÉRIEUSE.

Pour les exigences relatives à la ventilation, aux bouteilles de GPL et à l'enceinte, reportez-vous à la section ENCLOSURE REQUIREMENTS.

CYLINDRE ET CONDITIONS ET CARACTÉRISTIQUES DE CONNECTEUR

a. Les bouteilles, les vannes et les tuyaux de propane doivent être entretenus et inspectés avant chaque utilisation. Ils doivent être remplacés en cas de dommages visibles. Si le tuyau est coupé ou présente des signes d'abrasion ou d'usure, il doit être remplacé avant utilisation (**voir e.**).

b. Cette unité, lorsqu'elle est utilisée avec une bouteille, doit être connectée à une bouteille standard de gaz propane de 5 gallons (20 lb) équipée d'un dispositif anti-débordement répertorié. L'appareil est obligatoire sur toutes les bouteilles vendues depuis le 1er octobre 1998 afin d'empêcher tout remplissage excessif.

c. Les dimensions du cylindre doivent être d'environ 12 " (30,5 cm) de diamètre et 18" (45,7 cm) de hauteur. Les bouteilles doivent être construites et marquées conformément aux spécifications du ministère des Transports (DOT) pour les bouteilles à gaz LP ou à la norme relative aux bouteilles, sphères et tubes pour le transport des marchandises dangereuses et à la Commission, CAN / CSA-B339, selon le cas.

d. La bouteille utilisée doit comporter un collier pour protéger le robinet de la bouteille. Le système d'alimentation de la bouteille doit être conçu pour le retrait de la vapeur. Voir Fig. 8-1.

e. Lorsqu'il est utilisé avec une bouteille, le système d'alimentation en gaz doit être utilisé avec un régulateur de pression. Le régulateur de pression et l'ensemble de tuyau **(non fourni)** utilisés doivent correspondre à la spécification de type I par ANSI Z 21.58/CGA 1.6 et doivent être conformes à UL 144 en tant que partie du système d'alimentation en gaz propane autonome (voir Fig. 8-1).

f. La valve de cylindre de gaz de propane doit être équipée d'un dispositif d'accouplement de raccordement de cylindre, décrit comme type I dans la norme définie dans le e. de paragraphe ci-dessus. Ce dispositif est généralement décrit comme coupleur de fil de point culminant.

g. Si la bouteille est livrée avec un bouchon anti-poussière, placez-le sur la sortie du robinet de la bouteille chaque fois que la bouteille n'est pas utilisée. Installez uniquement le type de capuchon anti-poussière sur la sortie du robinet de la bouteille qui est fourni avec le robinet de la bouteille. D'autres types de bouchons ou de bouchons peuvent entraîner des fuites de propane.

OPÉRATION DE COUPLEUR

Pour relier le regulator/hose à l'ajustage de précision de valve de cylindre de gaz de propane: Serrez l'écrou de main sur le régulateur au-dessus de l'ajustage de précision de fil de point culminant sur la valve de cylindre. Tournez l'écrou de main dans le sens des aiguilles d'une montre pour engager les fils et pour serrer jusqu'à ce que douillettement. L'utilisation des pinces ou de la clé ne devrait pas être nécessaire. Seulement le "propane" marqué par cylindres doit être employé.

Pour déconnecter: tournez l'écrou à main dans le sens antihoraire jusqu'à ce qu'il soit détaché (Fig. 8-1)

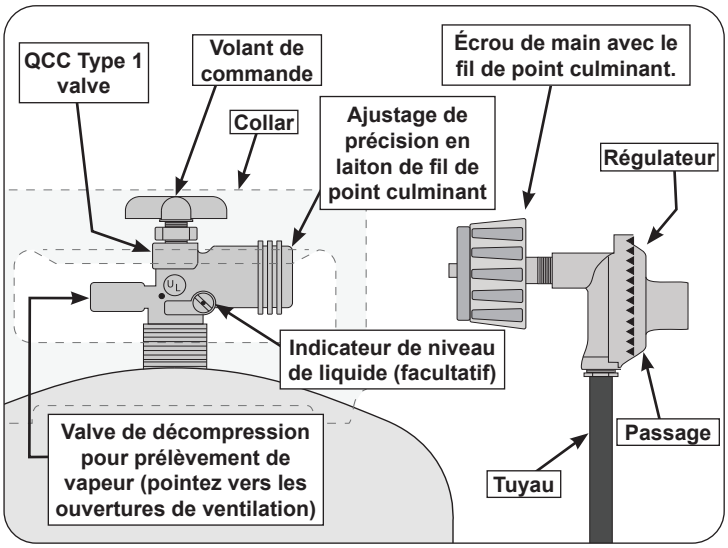


Fig. 8-1 Type coupleur de fil de point culminant d'I

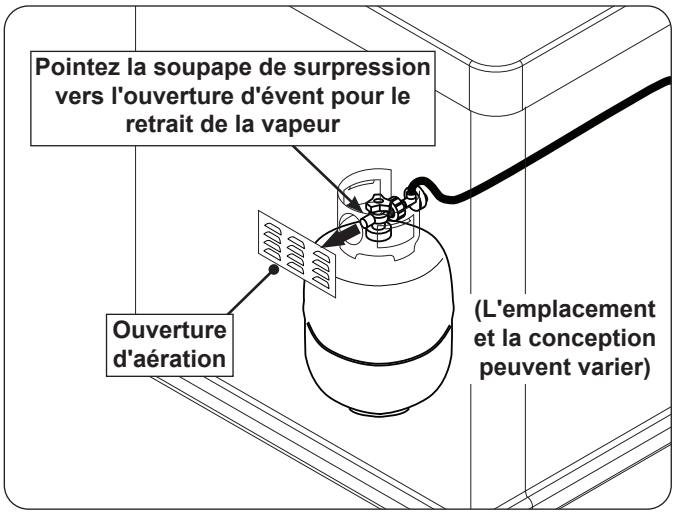


Fig. 8-2 Détail du retrait de vapeur

Important: Before using the unit, and after each time the cylinder is removed and reattached, check the hose for wear (see **a**.) and check all connections for leaks. Turn off the unit valves and open the main cylinder valve, then check connections with soapy water. Repair any leaks before lighting the unit.

CAUTION: Always turn the propane cylinder main valve off after each use, and before moving the unit and cylinder or disconnecting the coupling. This valve must remain closed and the cylinder disconnected while the appliance is not in use, even though the gas flow is stopped by a safety feature when the coupler is disconnected.

Carefully inspect the hose assembly each time before the gas is turned on. A cracked or frayed hose must be replaced immediately.

If the appliance is stored indoors, the cylinder must be disconnected and removed. Disconnected cylinders must be stored outdoors, out of the reach of children, with threaded valve plugs tightly installed, and must not be stored in a building, garage, or any other enclosed area.

FOR YOUR SAFETY

A. DO NOT store a spare propane-gas cylinder under or near this appliance.

B. NEVER fill the cylinder beyond 80-percent full.

C. IF THE INFORMATION IN **a.** AND **b.** IS NOT FOLLOWED EXACTLY, A FIRE CAUSING DEATH OR SERIOUS INJURY MAY OCCUR.

D. **CGA 791 connections on LP gas cylinders:** The cylinder face elastomeric face seal element on these devices could, over time, show marked and visible damage or deterioration that might cause a leak even with the connection tightened. A visual inspection for the seal must be carried out every time a LP gas cylinder is replaced or refilled. Any LP gas cylinder showing signs of damage or deterioration as illustrated in Fig. 9-1, including visible cracks and pitting, must be replaced.

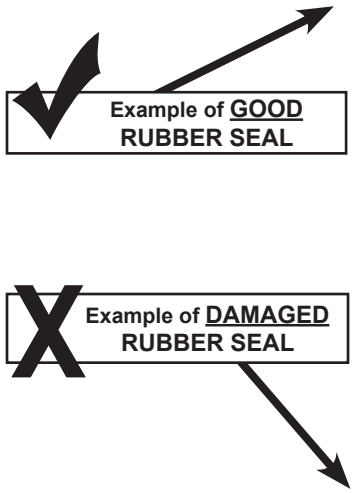


Fig. 9-1 Inspect rubber seal

UTILISATION SÛRE ET ENTRETIEN DES CYLINDRES DE GAZ DE PROPANE (suite)

Important: Avant d'employer le unité, et ensuite chaque fois que le cylindre est enlevé et rattaché, examinez tous les raccordements pour déceler les fuites. Arrêtez les valves de unité et ouvrez la valve principale de cylindre, puis vérifiez les raccordements avec de l'eau savonneux. Réparez toutes les fuites avant d'allumer le unité.

ATTENTION: Tournez toujours la valve principale de cylindre de propane au loin après chaque utilisation, et avant de déplacer le unité et le cylindre, ou débrancher l'accouplement. Cette valve doit rester fermée et le cylindre a débranché alors que l'appareil n'est pas en service, quoique l'écoulement de gaz soit arrêté par un dispositif de sûreté quand le coupleur est débranché.

Inspectez soigneusement l'ensemble de tuyau chaque fois avant que le gaz soit allumé. Un tuyau fissuré ou effiloché doit être immédiatement remplacé.

Si l'appareil est stocké à l'intérieur, le cylindre doit être disconnected et a enlevé. Des cylindres Disconnected doivent être stockés dehors, hors de la portée des enfants, avec les prises de valve filetées étroitement installées, et ne doivent pas être stockés dans un bâtiment, le garage, ou n'importe quel autre secteur inclus.

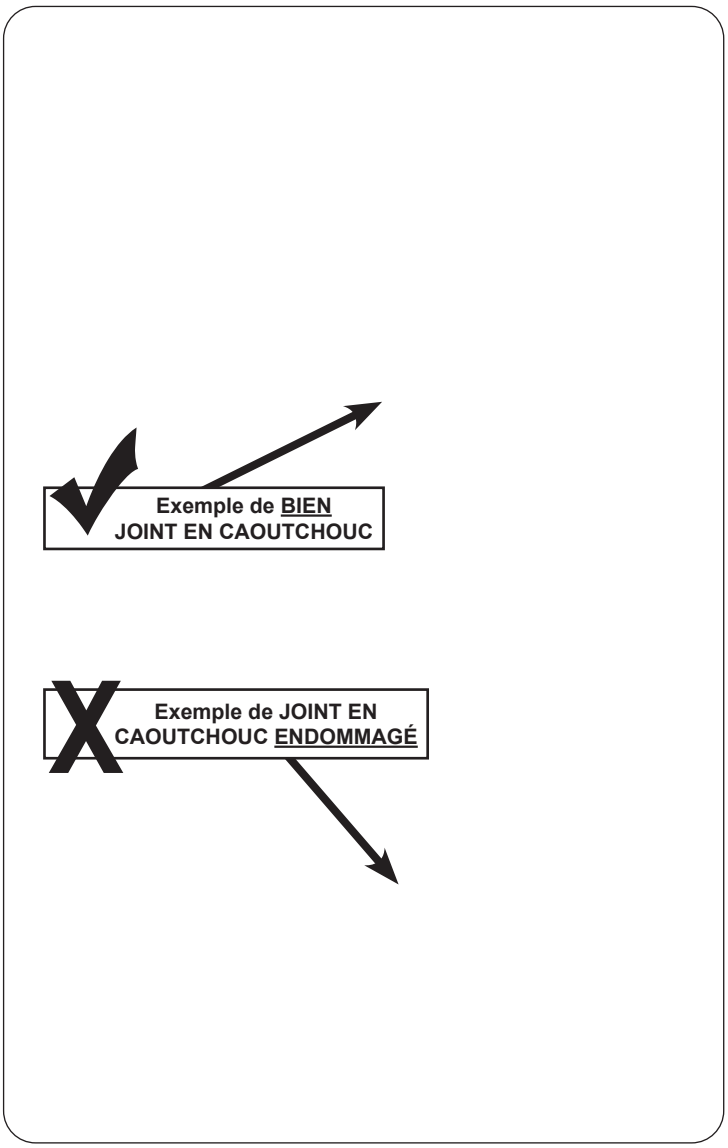


Fig. 10-1 Inspecter le joint en caoutchouc

POUR VOTRE SÛRETÉ

a. Ne stockez pas un cylindre de gaz disponible de propane dessous ou ne vous approchez pas de cet appareil.

b. Ne remplissez jamais cylindre au delà de 80 pour cent de plein.

c. SI L'INFORMATION DANS "A" ET "B" N'EST PAS SUIVIE EXACTEMENT, UN FEU CAUSANT LA MORT OU DES DOMMAGES SÉRIEUX PEUT SE PRODUIRE.

d. **Connexions CGA 791 sur les bouteilles de GPL :** l'élément d'étanchéité en élastomère de la face de la bouteille de ces appareils peut, au fil du temps, présenter des dommages ou une détérioration marqués et visibles susceptibles de provoquer une fuite même avec la connexion serrée. Une inspection visuelle du joint doit être effectuée chaque fois qu'une bouteille de GPL est remplacée ou remplie. Toute bouteille de GPL présentant des signes de dommages ou de détérioration, tel qu'illustré à la Fig. 10-1, y compris des fissures et des piqûres visibles, doit être remplacée.

ENCLOSURE REQUIREMENTS

For requirements regarding custom-built enclosures, see below.

To ensure proper operation and safety, the enclosure MUST comply with the following:

- Proper construction and cutout openings - see INSTALLATION REQUIREMENTS and ENCLOSURE PARAMETERS sections.
- Proper ventilation - see VENTILATION section.
- Proper clearances - see INSTALLATION REQUIREMENTS section.

You MUST read and follow these sections for complete enclosure requirement details.

ENCLOSURE PARAMETERS

General Guidelines

The enclosure can be constructed according to your individual preference, while following all guidelines found in this manual. **The enclosure MUST (see Fig. 11-1):**

- be installed on a hard and level surface
- be properly vented (see VENTILATION section)
- be constructed of only non-combustible materials (including the countertop) - as the grill is not insulated
- have the minimum dimensions specified in Fig. 11-1
- have the minimum cutout dimensions (see CUTOUT DIMENSIONS section)
- be setup so that the power supply is within reach of a properly wired and inspected **120VAC (15 AMP minimum) Ground Fault Circuit Interrupter (GFCI) GROUNDED three-wire receptacle**
- have access to the interior for ease of installation and service
- be setup so the unit is as close to the vent openings as possible
- be designed so that the grill is supported by the stainless-steel hanger extending from the upper portion of the unit (rests on left, right, and back of countertop cutout), and the two front support adjustment bolts located below the control panel on the gas grill side - see INSTALLATION section
- have drainage cutouts (if needed) to prevent the accumulation of water within the enclosure
- meet all requirements found in Fig. 11-1 and the following sections

When an L.P. cylinder is used in the enclosure, additional requirements exist, see the L.P. CYLINDER REQUIREMENTS section.

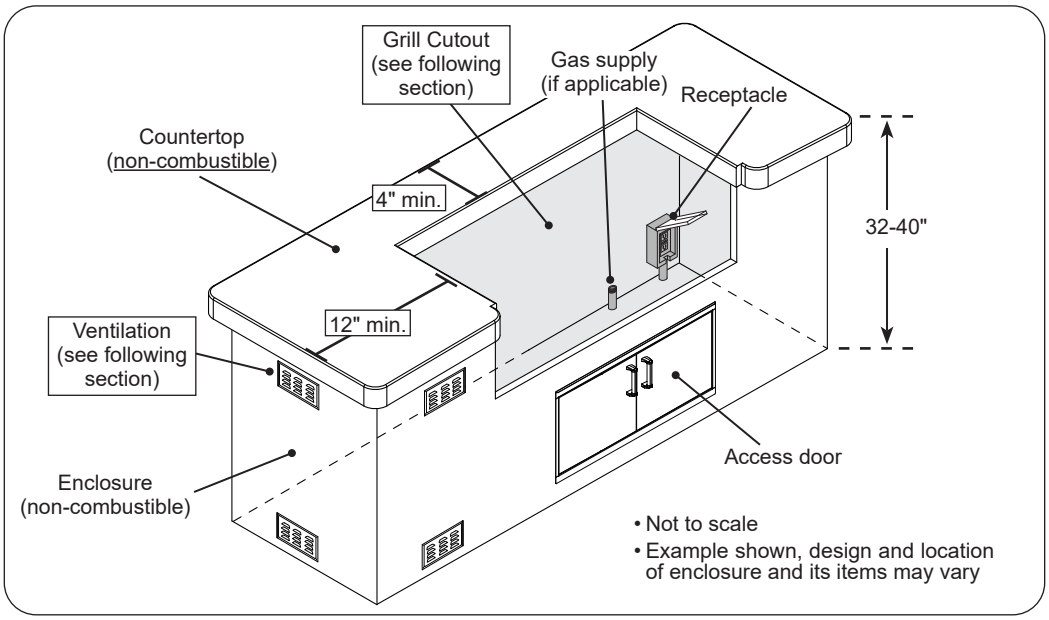


Fig. 11-1 Enclosure specifications

Ventilation

FOR YOUR SAFETY, you must provide the openings specific to your gas type for replacement air and ventilation of the enclosure (in case of possible leakage from gas connections and L.P. cylinders as applicable, and for heat dissipation). See the following sections for ventilation requirements specific to your gas type. Failure to provide proper ventilation for your gas type may result in a fire or explosion causing property damage, bodily injury, or death.

WARNING: Vent openings in side walls shall not communicate directly with other enclosures of the outdoor cooking gas appliance (see Fig. 12-1).

- **Ventilation openings shall not be located in front of the appliance above floor level.**
- **Every opening shall have a minimum dimension so as to permit the entrance of a 3/16" (4.8 mm) rod.**
- **The openings must remain unobstructed:**

  The clearance between the openings and any items outside of the enclosure is a minimum of 6". The clearance between the openings and any items within the enclosure is a minimum of 2". See Fig. 12-2.

KEEP THE REQUIRED VENT OPENINGS AND SURROUNDING AREA OF THE ENCLOSURE CLEAR AND FREE AT ALL TIMES.

Natural Gas Ventilation Requirements

When natural gas is used in the enclosure, the guidelines below MUST be followed:

One side of the enclosure shall be left completely open to the outside; OR 1 minimum vent opening (at top level) or 2 vent openings (1 at top and 1 at floor level) MUST be created (reference Fig. 12-3):

- **When using only 1 vent opening: the opening must be at top level and must have a minimum of 20 sq. in. of free area.**
- **When using 2 vent openings: The top and floor level openings must have a minimum of 10 sq. in. of free area each. The openings must be equally sized (ventilation total of 20 sq. in. free area).**
- The opening **at the top level** must begin 1" or less below the countertop level and end no more than 5" below the countertop level.
- If applicable, the opening **at the floor level** must begin 1" or less above the floor level and end no more than 5" above the floor level.
- If planning for 2 vent openings, it is acceptable to use RHP venting panels (PN 5510-01). Contact your dealer.

Note: These same requirements apply when multiple appliances exist in the enclosure.

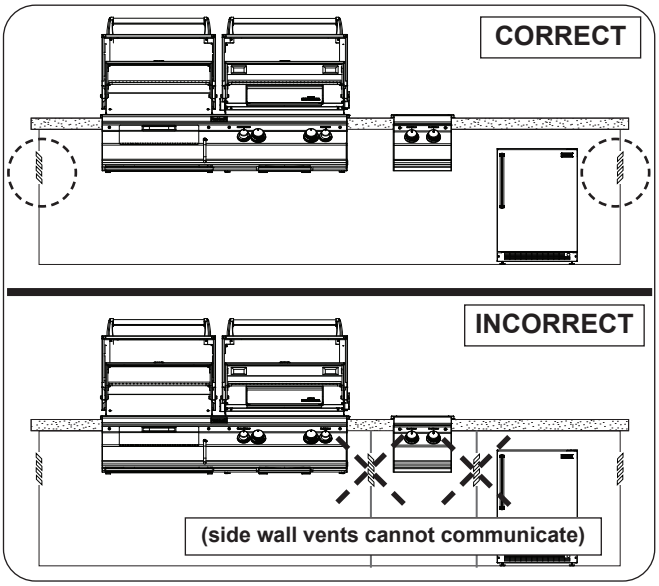


Fig. 12-1 Correct / Incorrect side wall venting

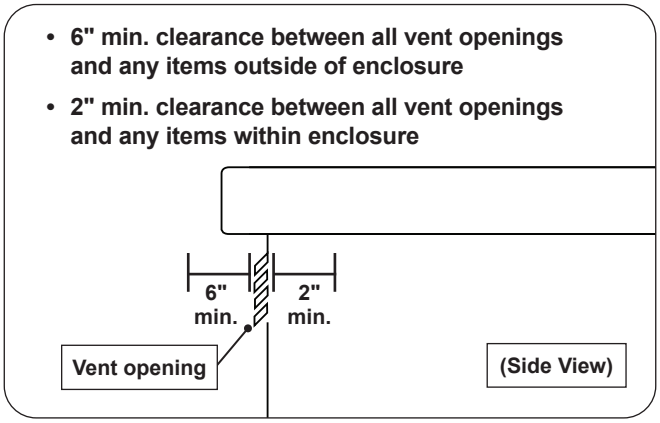


Fig. 12-2 Vent openings clearance

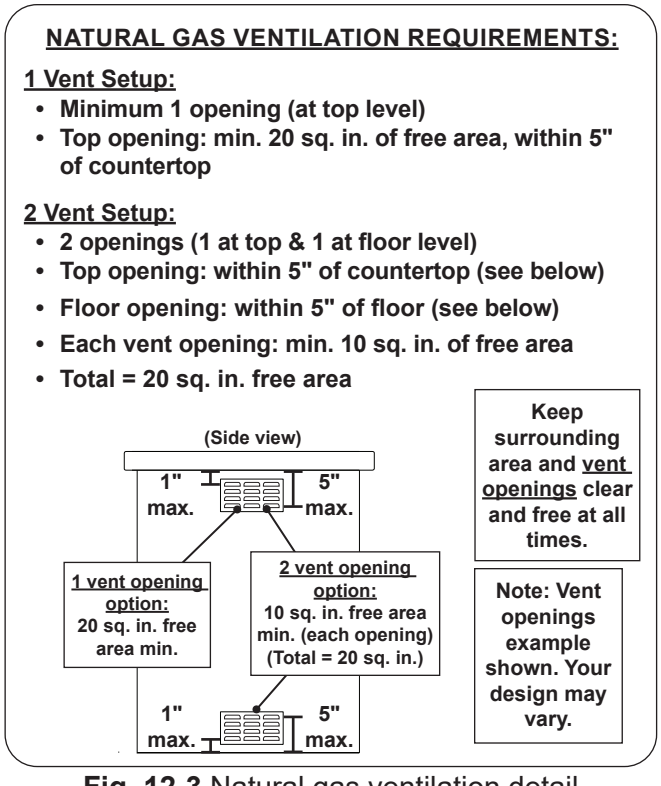


Fig. 12-3 Natural gas ventilation detail

L.P. Cylinder Ventilation Requirements

When an L.P. cylinder is used in the enclosure, the guidelines below MUST be followed:

One side of the enclosure shall be left completely open to the outside; OR 4 minimum vent openings (2 at top and 2 at floor level) MUST be created (reference Fig. 13-1):

- **Each opening at the top level must have a minimum of 10 sq. in. of free area. The openings must be equally sized.**
- **Each opening at the floor level must have a minimum of 5 sq. in. of free area. The openings must be equally sized.**
- **Ventilation total of 30 sq. in. free area**
- Each opening **at the top level** must be on adjacent walls of the enclosure, and spaced at a minimum of 90 degrees. The openings must begin 1" or less below the countertop level and end no more than 5" below the countertop level.
- Each opening **at the floor level** must be on adjacent walls of the enclosure, and spaced at a minimum of 90 degrees. The openings must begin 1" or less above the floor level and end no more than 5" above the floor level.
- **Additional requirements exist for L.P. cylinders, see the L.P. CYLINDER REQUIREMENTS section.**

Note: These same requirements apply when multiple appliances exist in the enclosure.

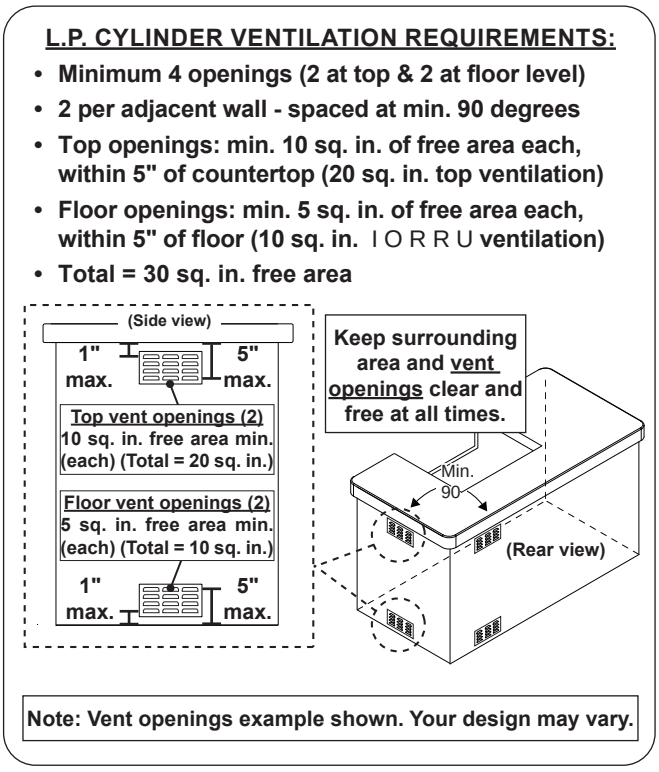


Fig. 13-1 L.P. cylinder ventilation detail

Remote L.P. Ventilation Requirements

When a remote L.P. gas system is used with the enclosure, the guidelines below MUST be followed:

One side of the enclosure shall be left completely open to the outside; OR 4 minimum vent openings (2 at top and 2 at floor level) MUST be created (reference Fig. 13-2):

- **Each opening must have a minimum of 45 sq. in. of free area. The openings must be equally sized.**
- **Ventilation total of 180 sq. in. free area**
- Each opening **at the top level** must be on adjacent side walls of the enclosure, and spaced at a minimum of 90 degrees. The openings must begin 1" or less below the countertop level and end no more than 5" below the countertop level.
- Each opening **at the floor level** must be on adjacent walls of the enclosure, and spaced at a minimum of 90 degrees. The openings must begin 1" or less above the floor level and end no more than 5" above the floor level.

Note: These same requirements apply when multiple appliances exist in the enclosure.

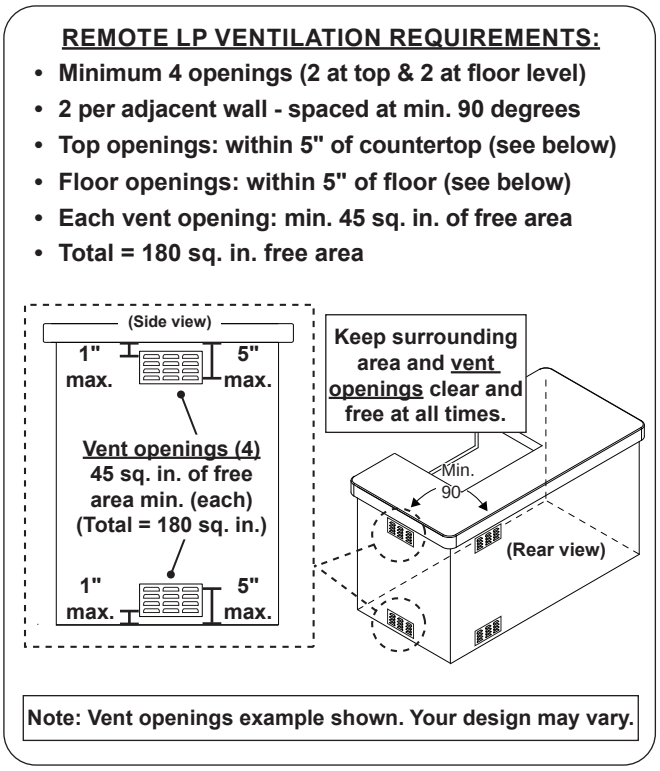


Fig. 13-2 Remote LP ventilation detail

L.P. Cylinder Requirements (if applicable)

When a propane (L.P.) cylinder is installed inside of the enclosure, the additional guidelines below **MUST** be followed. FAILURE TO DO SO MAY CAUSE DAMAGE TO YOUR UNIT AND/OR PERSONAL INJURY. Refer to Fig. 14-1 and 14-2.

- The propane cylinder (and any door/tray it is located in) MUST be located on the gas grill side of the unit (right side). **DO NOT locate the propane cylinder on the charcoal side of the unit.**
- Only a C.S.A. listed stainless-steel flex connector must be connected to the unit.
- The regulator/hose assembly coming from the cylinder must only be connected to the above mentioned flex connector. A 1/2" male-to-male flare adapter will be required (not included). **DO NOT connect the regulator/hose assembly directly to the unit.**
- A non-combustible heat shield must be installed to protect the regulator/hose assembly and cylinder valve.
- The cylinder must be properly secured, and rest at least 2" above the ground.
- An additional vent opening is recommended in the access door near the cylinder and at the gas connection level (minimum 10 sq. in. of free area).
- The pressure relief valve on the cylinder must be pointed toward the vent opening for vapour withdrawal.

An "access door with tank tray and louvers" is available. It includes a heat shield that rests directly above the L.P. cylinder, a tray, a retention device, and louvers to meet the cylinder install requirements. The door is shown in Fig. 14-3. Contact your dealer for ordering information.

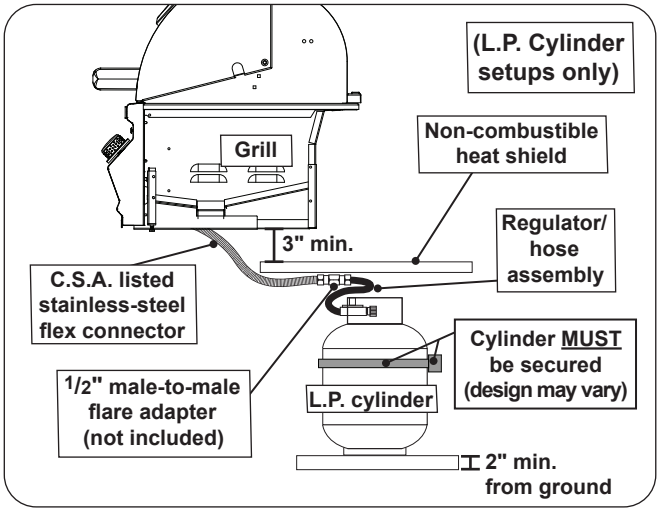


Fig. 14-1 L.P cylinder orientation (if applicable)

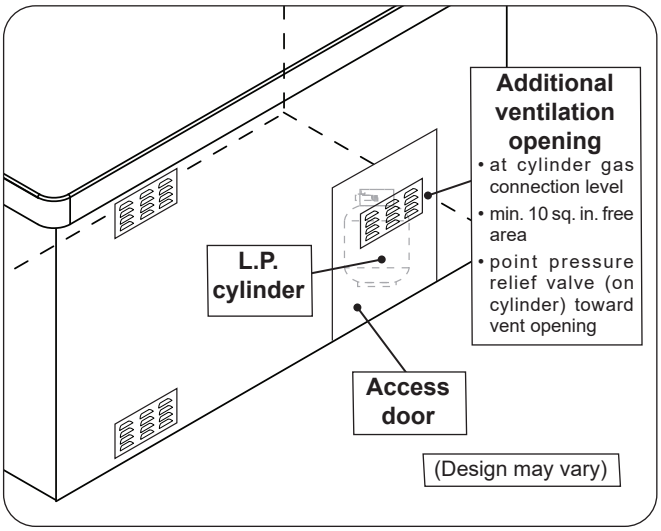


Fig. 14-2 Additional vent opening for L.P. cylinder

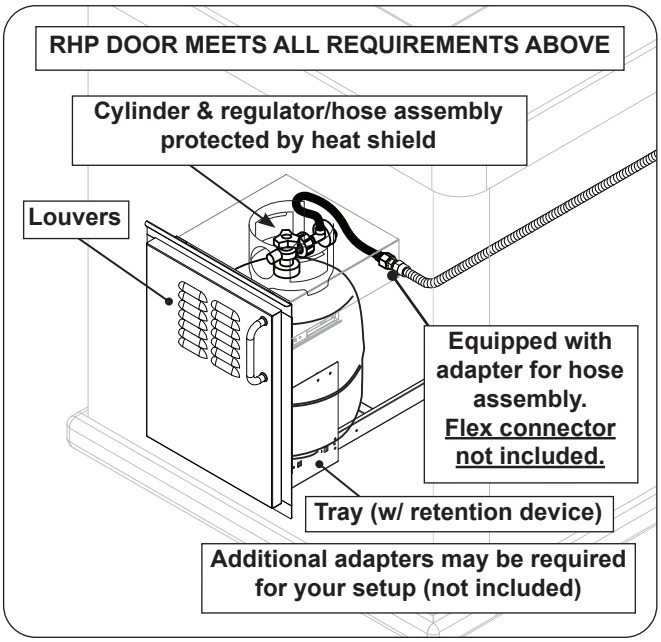


Fig. 14-3 Optional door w/ tank tray & louvers

Cutout Dimensions

	A830i
A Countertop to unit bottom **cutout**	11 1/2"
B Side to side **cutout**	50 1/4"
C Front to back **cutout** †	19 1/2"
D Control panel width **cutout** ‡	51 1/4"

† Includes any substrate at front wall of enclosure (in the area the rear of the control panel is to sit flush against). See SUBSTRATE section on next page.

‡ Only applicable for enclosures that have countertops with an overhang (see illustration and section below).

Table 1 - Cutout Dimensions

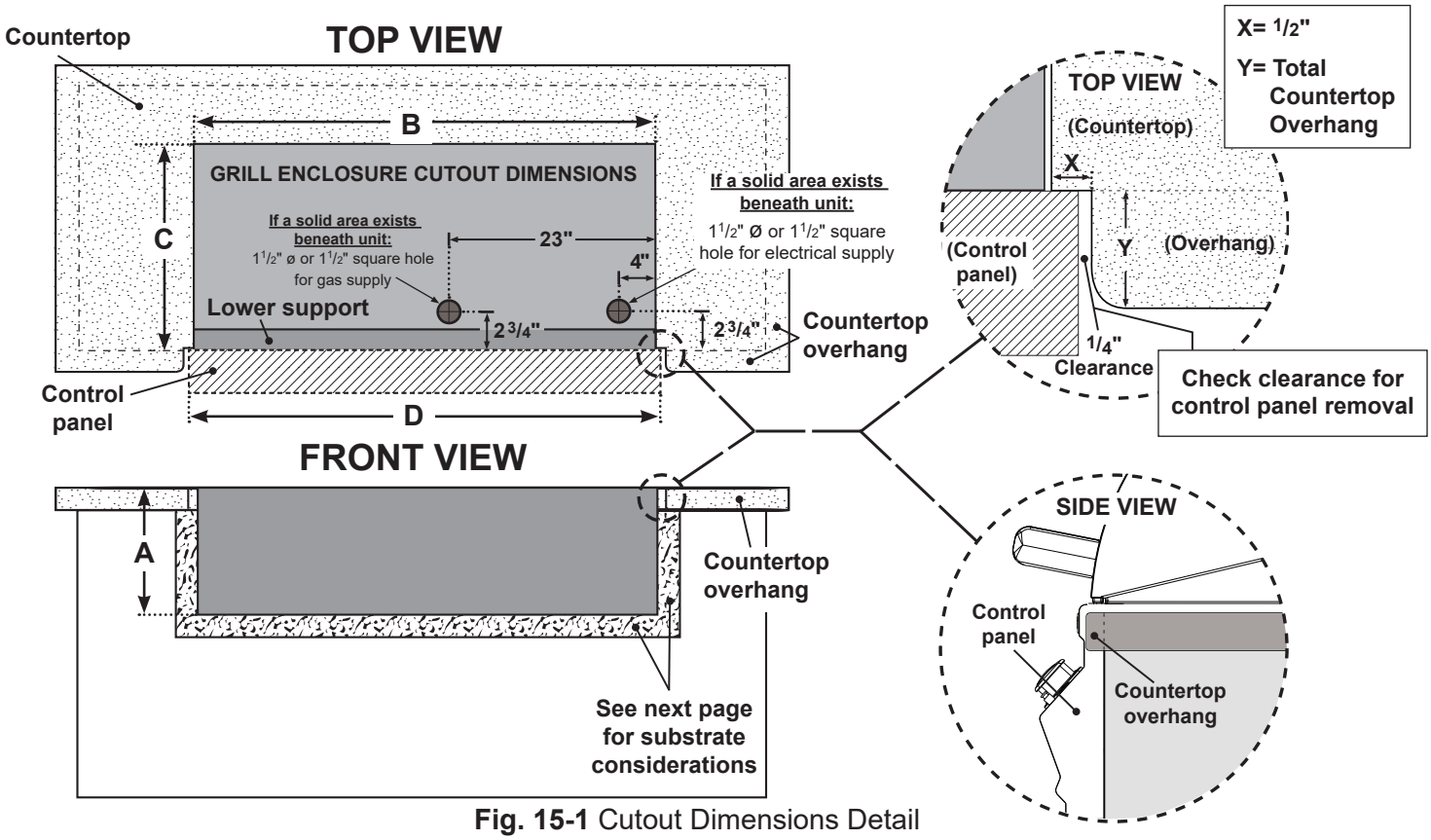


Fig. 15-1 Cutout Dimensions Detail

Countertop Overhang

The control panel is designed to sit flush against the enclosure front wall. If the countertop extends beyond the front wall, creating a countertop overhang, it must be cut flush with the front wall for the width of the control panel or a gap will be created exposing the forward portions of the left and right side grill fire walls. See illustrations in Fig. 15-1 above for the correct setup, and Fig. 15-2 for an incorrect setup.

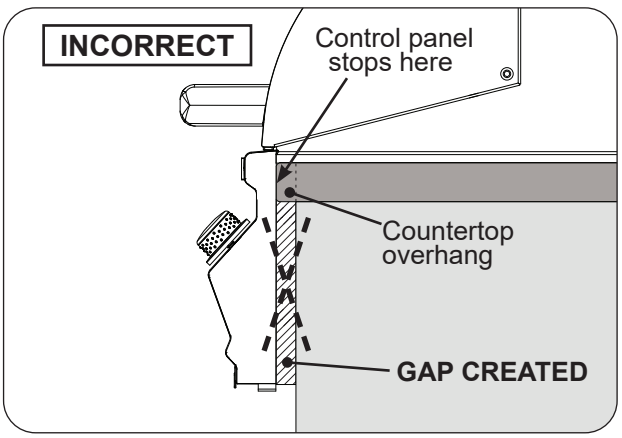


Fig. 15-2

Substrate

When adding any substrate to the enclosure front wall (including tiles, stone, etc.), consider the following:

Substrate Behind Control Panel

Substrate + countertop "front to back" cutout must equate to **Dim. C** (see previous page) when the substrate sits flush behind the control panel.

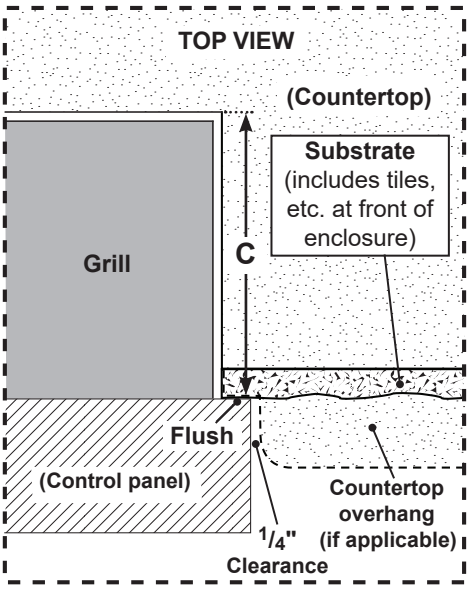


Fig. 16-1

Substrate Alongside Control Panel

Any additional substrate alongside the control panel does not need to be considered in **Dim. C** (see previous page), however a 1/4" clearance on each side (same as overhang) and below is required.

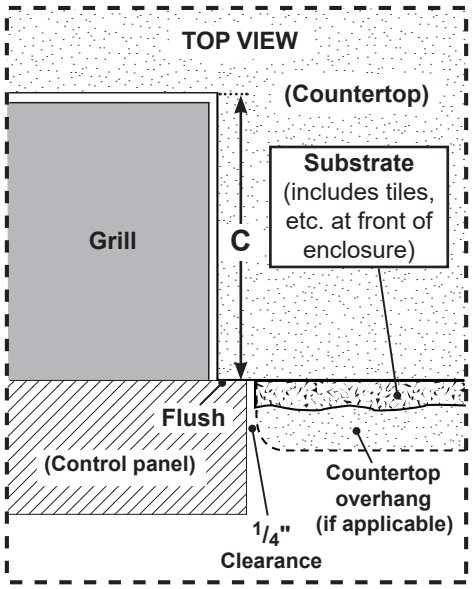


Fig. 16-2

Installation must be performed by a qualified professional service technician.

This unit is designed for outdoor use only. **DO NOT** use this unit inside a building, garage, or enclosed area, or under overhead **combustible** construction. **DO NOT** install this unit in or on a recreational vehicle or boat.

Any constructed outdoor area in which the appliance is used shall comply with one of the following:

- An outdoor area with walls on three sides, and no overhead cover
- Within a partial outdoor area that includes an overhead cover and no more than two walls. The sidewalls may be parallel, as in a breezeway, or at right angles to each other
- Within a partial outdoor area that includes an overhead cover with walls on three sides, and at least 30% or more of the horizontal periphery of the enclosure that is open and unrestricted

Note: All openings must be permanently open.

Note: Sliding doors, garage doors, windows, or screened openings are not considered as permanent openings.

Refer to DIAGRAMMATICAL REPRESENTATIONS OF OUTDOOR AREAS section.

OVERHEAD CONSTRUCTION REQUIREMENTS

Important: **DO NOT** use this appliance under combustible overhead construction.

A minimum 5 foot clearance is required between the countertop and the non-combustible overhead construction. (No combustible materials are allowed within this area.)

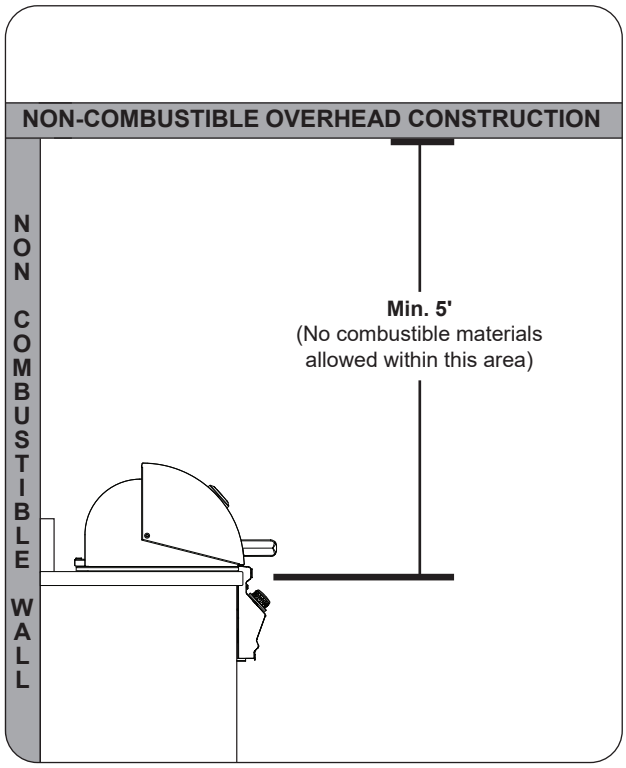


Fig. 17-1 Overhead requirements

Important: The grill is not insulated. Refer to the information below to ensure all required clearances are met.

REAR WALL CLEARANCES

For the minimum clearances between the unit and rear walls, your setup must fall within one (or more) of the following:

A. Clearance between unit and strictly non-combustible rear wall

(i.e. brick wall, see Fig. 18-1)

- The unit must have a minimum clearance of 4" from the non-combustible rear wall.

  (To allow for proper ventilation and prevent dangerous overheating.)

B. Clearance between unit and a protected combustible rear wall

(i.e. a non-combustible wall in front of a combustible wall to serve as a barrier. This can be accomplished by brick, or a metal stud finished with non-combustible substrate, see Fig. 18-2)

- The unit must have a minimum clearance of 14" from the protected combustible rear wall.

  (The 4" non-combustible material plus an additional 10" clearance between the unit and protected rear wall.)

C. Clearance between unit and combustible rear wall

- The unit must have a minimum clearance of 18" from the combustible rear wall (see Fig. 18-3).

BACKSPLASH CLEARANCE (if applicable)

If a non-combustible backsplash exists, it must have a minimum of a 4" clearance from the rear of the unit (to allow for proper ventilation and prevent dangerous overheating). See Fig. 18-4.

Important: This 4" backsplash clearance must first be met prior to any non-combustible walls beginning behind it.

SIDE / CORNER WALL CLEARANCES (if applicable)

The unit must have a minimum clearance of 24" from any side walls (to account for variables in airflow that could affect performance). See Fig. 18-5.

Clearances continued on following page

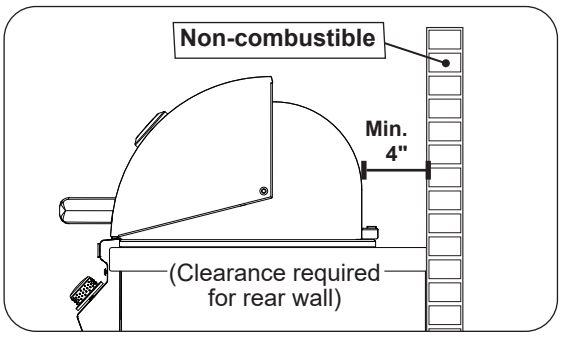


Fig. 18-1 Clearance **'A'** Diagram

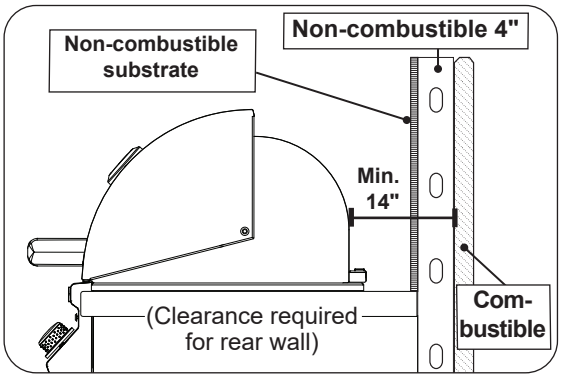


Fig. 18-2 Clearance **'B'** Diagram

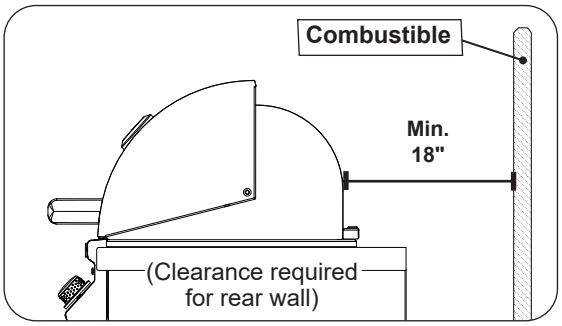


Fig. 18-3 Clearance **'C'** Diagram

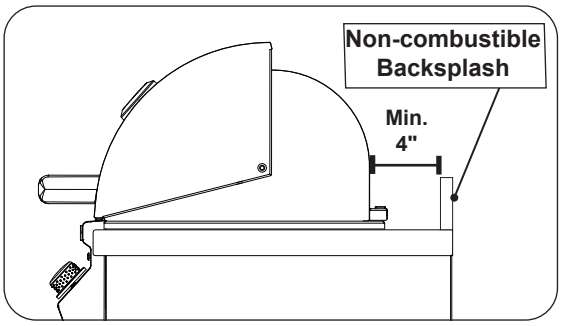


Fig. 18-4 Backsplash clearance

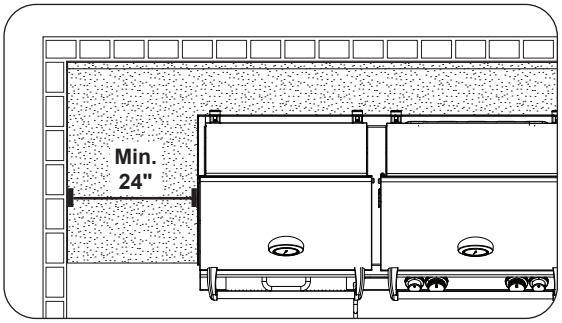


Fig. 18-5 Side/corner wall clearance

CONTROL PANEL CLEARANCES

- The control panel **MUST** have a minimum side clearance of 6" from any obstructions/side walls. See Fig. 19-1.

  (To allow for access to light switch and control panel removal.)
- The control panel **MUST** remain removable for servicing (see CONTROL PANEL REMOVAL section). Any adjacent countertops must not obstruct the panel from being removed.

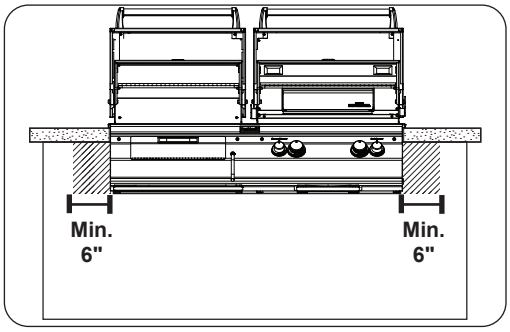


Fig. 19-1 Control panel clearances

COMBUSTION AIR AND COOLING AIRFLOW

Proper airflow (front-to-back, Fig. 19-2) MUST be maintained for the unit to perform as it was designed. If airflow is blocked, overheating and poor combustion will result. Do not block the 1" front air inlet along the bottom of the control panel.

CAUTION: Wind blowing into or across the rear oven lid vent (Fig. 19-4) can cause poor performance and/or dangerous overheating. Install the grill so that the prevailing wind blows toward the front of the grill (Fig. 19-3). **A wind deflector is available for purchase to assist in proper airflow during windy conditions** (gas side only)**.** See Table 3 for model numbers. Follow the instructions included with the wind deflector for installation.

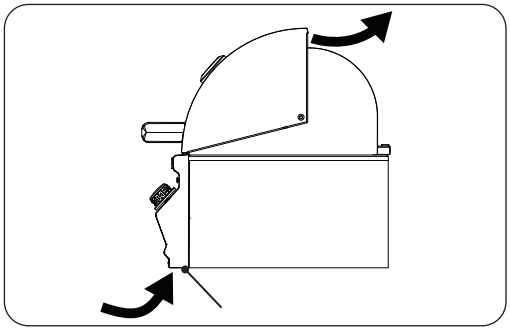


Fig. 19-2 Airflow diagram

GAS-SUPPLY PLUMBING REQUIREMENTS

The gas supply is to be routed into the enclosure, near the unit. Your individual installation may vary. **Observe the National Fuel Gas Code and all local codes. Leak test at all connections.**

The gas supply must be sized to provide minimum inlet pressure at the maximum flow rate (BTU/hr). Undue pressure loss will occur if the pipe is too small, or the run is too long. Gas supply pipe must be ½" minimum interior diameter. If the gas line is longer than 20', a larger diameter line may be necessary. Refer to the NFPA 54 guidelines for further details.

DO NOT use a rubber hose within the enclosure.

A C.S.A. approved stainless steel flex connector is included and pre-installed to the valve manifold, and routes to the gas supply. A flare-to-NPT adapter is provided for 1/2" pipe. The use of any rigid pipe, semi-rigid tubing, and connectors must comply with the Standard for &RQQHFWRUV IRU 2XWGRRU *DV $SSOLDQFHV DQG 0DQXIDFWXUHG ANSI Z21. 75 (CSA 6.27).

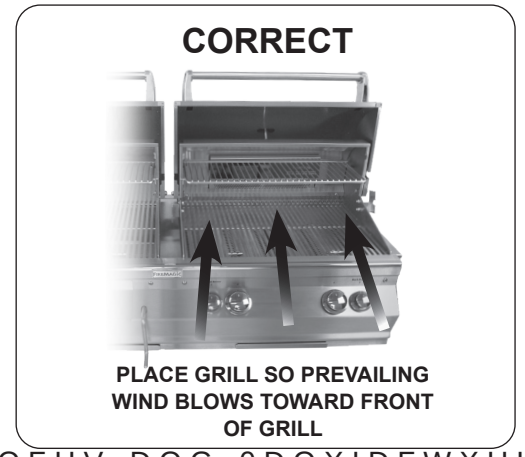


Fig. 19-3 Airflow direction - CORRECT

Use a pipe joint compound resistant to all gasses on all NPT pipe fittings. Make sure to tighten every fitting securely. **Do not use pipe joint compound to connect flare fittings.**

Important: A shut-off valve (not included) in the gas supply line is required. It must be installed within 6 feet of the unit and must be easily accessible. Use a pipe joint compound resistant to all gasses on all NPT pipe fittings **except flare fittings**. Refer to NFPA 54 guidelines for further details.

GAS SUPPLY AND MANIFOLD PRESSURES:

For **natural gas** - normal 7" water column (w.c.), minimum 5", maximum 10 1/2". For **propane gas** - normal 11" w.c., minimum 10", maximum 13".

Note: An additional regulator may be needed to meet these requirements.

Note: A sediment trap in the gas supply line is recommended where applicable. It should be installed downstream of the shut-off valve as close to the unit as possible. Refer to NFPA 54 guidelines for further details.

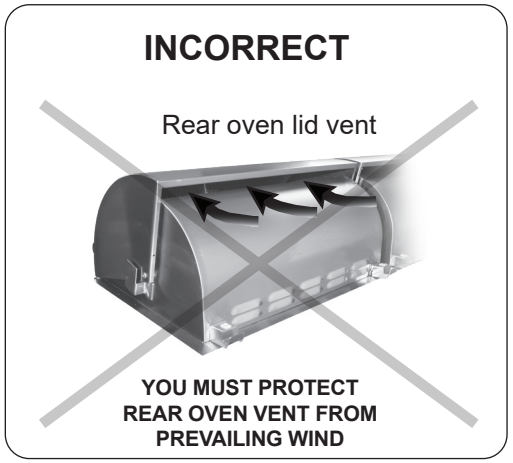


Fig. 19-4 Airflow direction - INCORRECT

DIAGRAMMATICAL REPRESENTATIONS OF OUTDOOR AREAS

The following figures are diagrammatical representations of outdoor areas, as defined in Clause 4.25.3. See INSTALLATION REQUIREMENTS section.

Fig. 20-1 Outdoor area - Example 1

Fig. 20-2 Outdoor area - Example 2

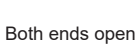


Fig. 20-3 Outdoor area - Example 3

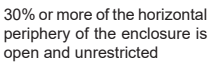


Fig. 20-4 Outdoor area - Example 4

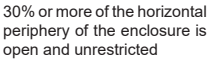


Fig. 20-5 Outdoor area - Example 5

ELECTRICAL SAFETY

- To protect against electric shock, do not immerse cord or plugs in water or other liquid.
- Unplug from the outlet when not in use and before cleaning. Allow to cool before putting on or taking off parts.
- Do not operate any outdoor cooking gas appliance with a damaged cord or plug, or after the appliance malfunctions or has been damaged in any manner. Contact the manufacturer for repair.
- Do not let the cord hang over the edge of a table or touch hot surfaces.
- Do not use an outdoor cooking gas appliance for purposes other than intended.
- When connecting, first connect plug to the outdoor cooking gas appliance then plug appliance into the outlet.
- **Use only a properly wired and inspected 120VAC (15 AMP minimum) Ground Fault Circuit Interrupter (GFCI) GROUNDED three-wire receptacle with this outdoor cooking gas appliance.**
- The GFCI receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.
- Never remove the grounding plug or use with an adapter of two prongs.
- Use only extension cords with a three-prong grounding plug, rated for the power of the equipment, and approved for outdoor use with a W-A marking.
- **The provisions of the National Electric Code as well as any local codes must be observed when installing the product.**

MODEL SPECIFICATIONS

		A830i	
		Nat.	L.P.
Main burner	Quantity	2	2
	Orifice drill size	#42	#54
	Air shutter opening †	3/16"	3/16"
Back burner *	Quantity	1	1
	Orifice drill size	#52	#62
Charcoal burner	Quantity	1	1
	Orifice drill size	#40	#53
Infrared searing burner *	Quantity	1	1
	Orifice drill size	#49	#56
Input electrical requirements		100~240 VAC / 1.90A max. / 50/60 Hz / GFCI outlet	
Appliance rating		13 VDC / 150 Watts	
Interior oven lights rating		**12V / 10 watt** halogen bulb	

* If equipped

† These are air shutter factory settings. These settings may require adjustment due to altitude, or other local conditions. See AIR SHUTTER ADJUSTMENT / BURNER FLAME INSPECTION section.

Table 2 - Product Specifications

	A830i
Wind deflector model # (gas side only) *	23728-19
Burner maintenance kit model # (gas side only) *	MK-1
Grill complete maintenance kit model # *	MCK-1

* If applicable, not included

Table 3 - Grill Supporting Products

Model	Height		Width		Depth
	(Top to bottom)		(Left to right)		(Front to back)
	Bottom of hanger to top		Maximum width **(C)**	Control panel width **(D)**	Maximum depth **(E)**
	With oven lid OPEN **(A)**	With oven lid CLOSED **(B)**			
A830i	21 1/4"	13 3/4"	52 1/4"	50 7/8"	30"

Table 4 - Grill Dimensions

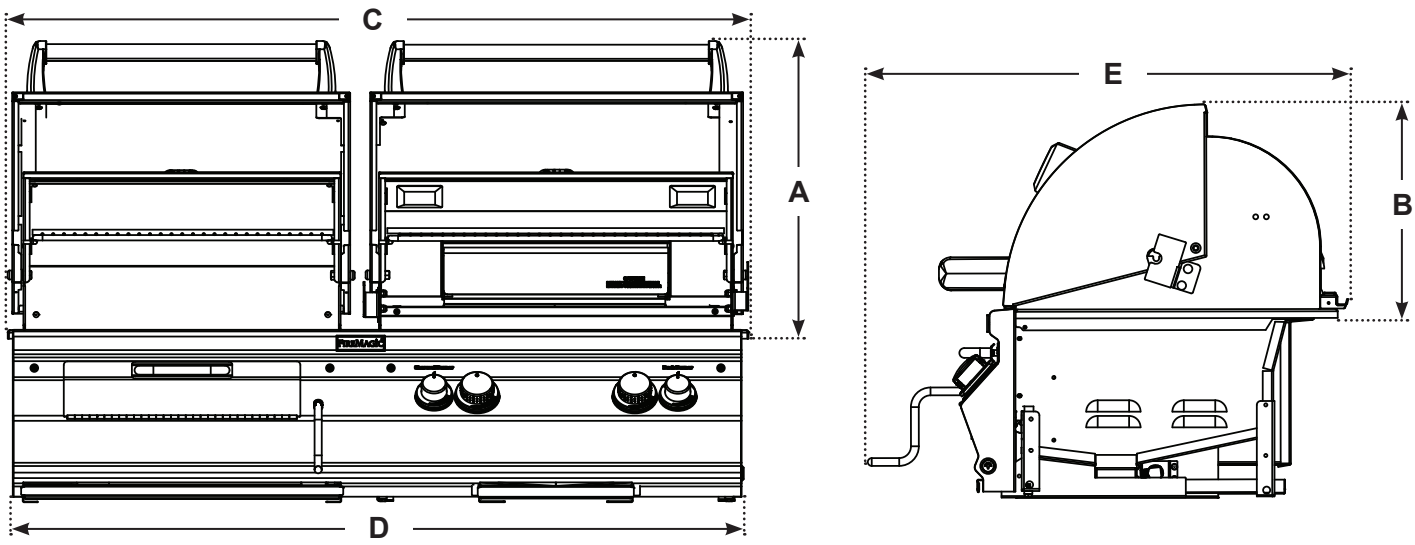
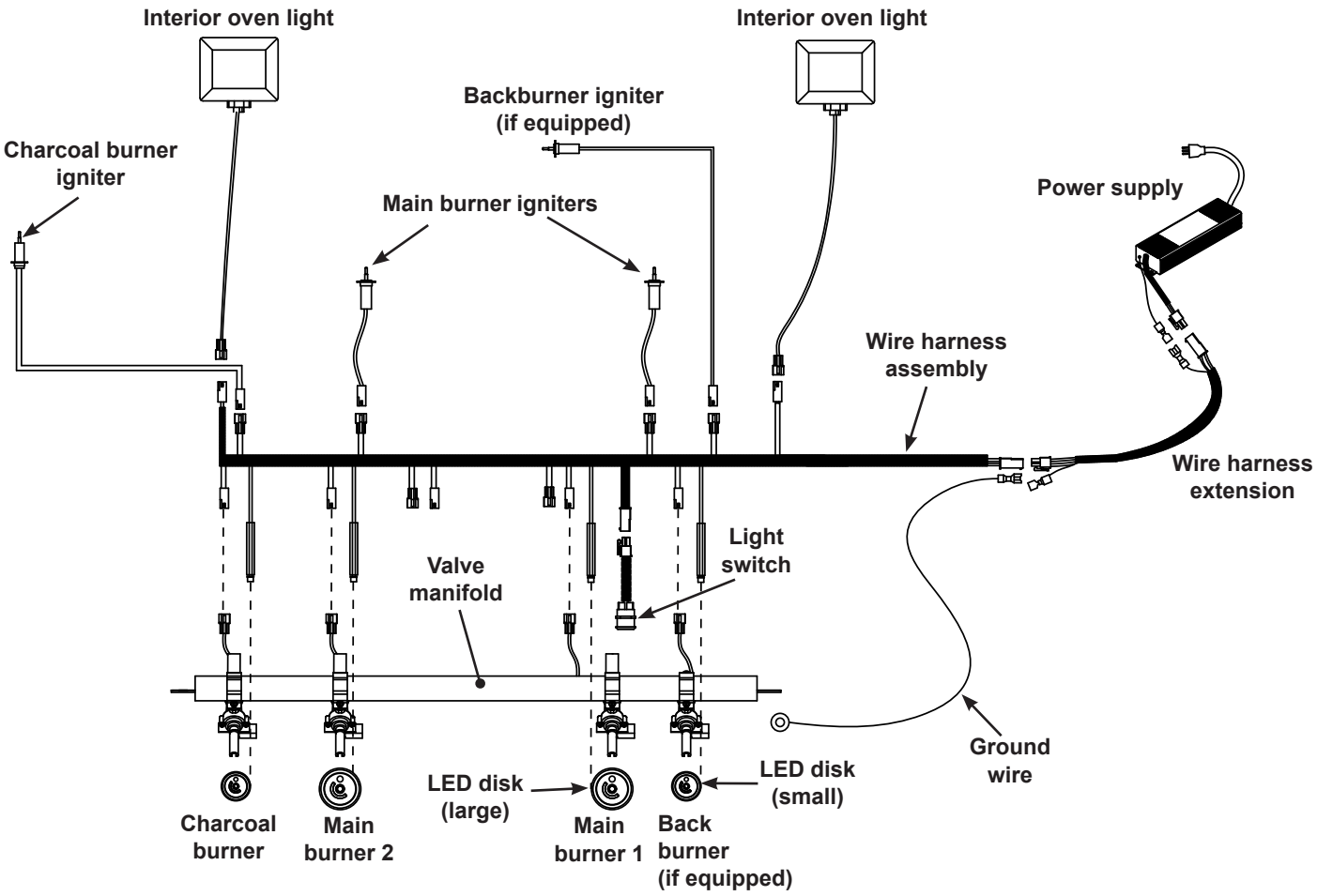


Fig. 23-1

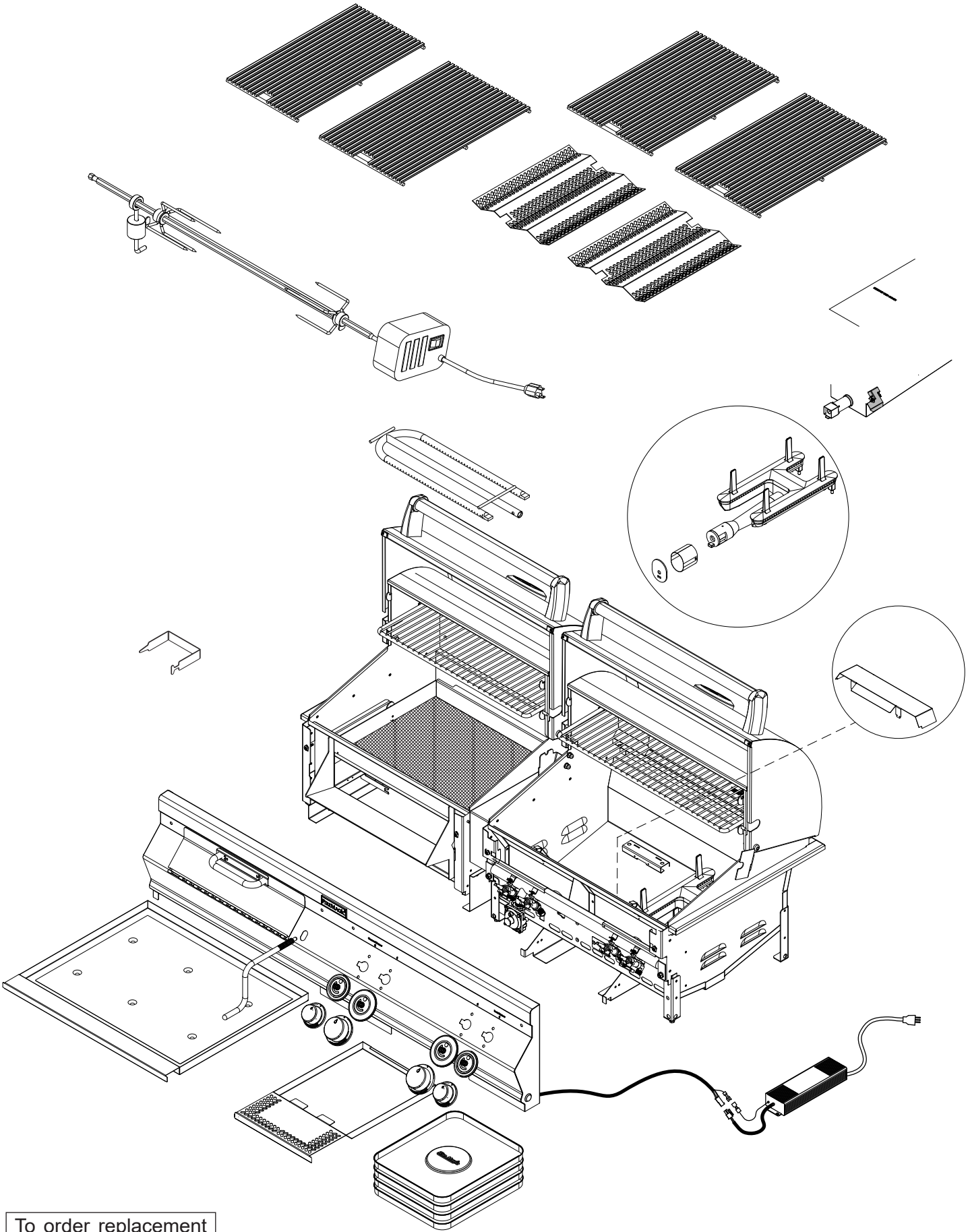
BUILT-IN GRILL WIRING DIAGRAM*



* Model w/ backburner shown. Model wire diagrams may vary.

Note: In addition, a wire diagram specific to your unit can be found affixed to the inside of the control panel.

COMBO GRILL REPLACEMENT PARTS LIST



To order replacement parts, contact your local Fire Magic® dealer.