

**SERVICE MANUAL  
FREE STANDING GAS RANGE**



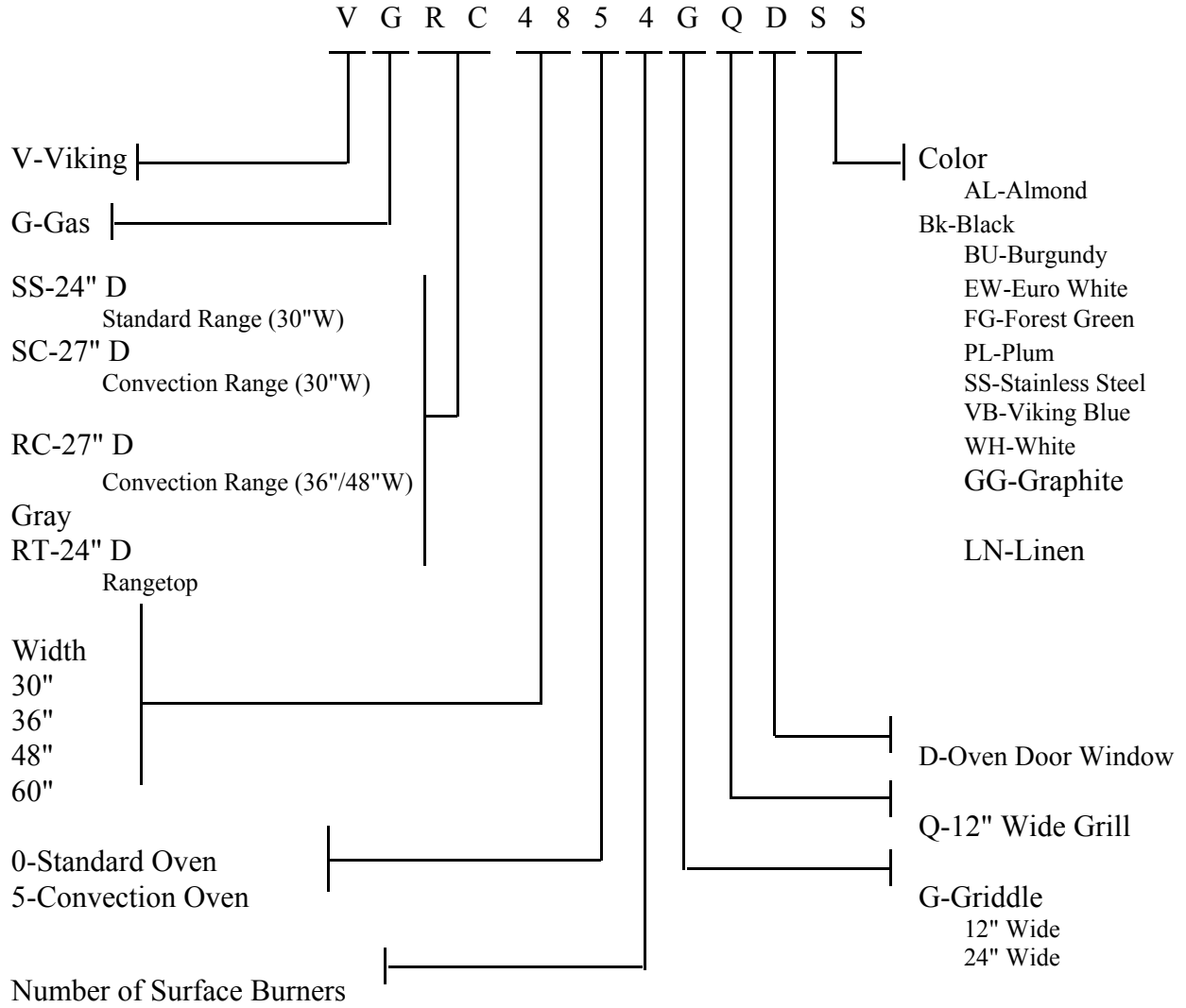
**VIKING RANGE CORPORATION ®**

## TABLE OF CONTENTS

Viking Model Numbers.....	2	Top Burner Ignitor Removal.....	25
Viking Serial Number logic.....	3	Spark Module Removal.....	25
Viking Product Warranty.....	4	Indicator Light Removal.....	26
Proximity to Side Cabinets Installation.....	6	Bake / Broil Thermostat Removal.....	26
Gas Connections.....	7	Oven Ignitor Removal.....	26
Rangetop Cutout and Specifications.....	8	Broil Gas Valve Removal.....	26
Range Leveling.....	9	Oven Gas Valve Removal.....	26
Combustion of Gas.....	10	Top Burner Valve Replacement.....	27
BTU Requirements.....	12	Pressure Regulator Removal.....	27
Gas Conversion.....	13	Convection Fan Removal.....	27
I / R Broiler Spud (Orifice) Change.....	14	Oven Burner Removal.....	27
Surface Burner Adjustments.....	15	Broil Burner Removal.....	28
Oven Burner Adjustments.....	16	Broil Ignitor Removal.....	28
Grill / Griddle Burner Adjustment.....	17	Indicator Light.....	28
Oven Temperature Calibration Chart.....	18	Oven Light Switch.....	28
Oven Thermostat / Calibration.....	19	Oven Light Switch Removal.....	28
Silicon Carbide (Glow-Coil) Ignition.....	20	Oven Gasket Removal.....	28
Door Removal.....	21	Convection Fan Removal.....	28
Oven Door Assembly.....	22	Oven Light Removal.....	29
Hinge and Logo Removal.....	22	Grill Burner Removal.....	29
Door Hinge Removal.....	22	Grill Ignitor Removal.....	29
Oven Door Parts.....	22	Griddle Thermostat Removal.....	29
Control Panel Removal.....	23	Trouble Shooting Guide.....	30
Landing Ledge Removal.....	23	Griddle Repair Kit.(12") griddle.....	34
Component Location.....	24	Griddle Repair Kit (24").....	35
Top Burner Removal.....	25	Wiring Diagram (Rangetops).....	36
		Wiring Diagram (convection Ranges).....	37

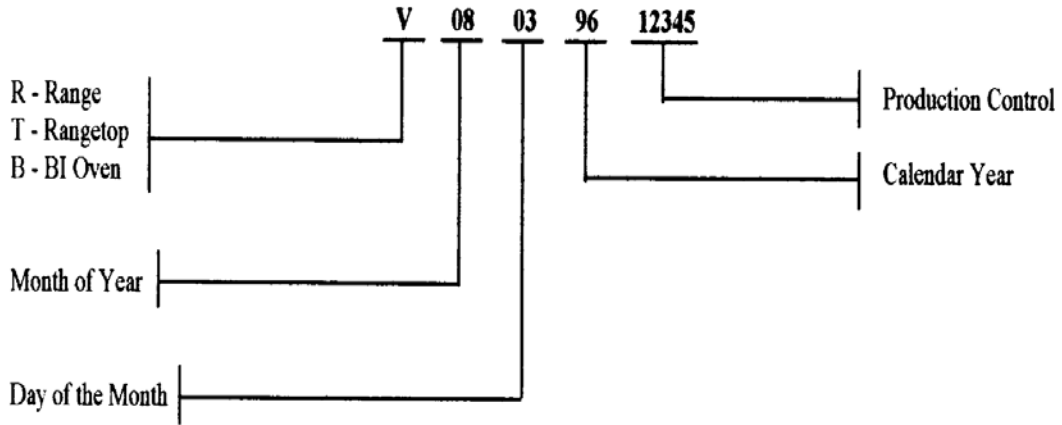
# NEW VIKING MODEL NUMBERS

## RANGES AND RANGETOPS

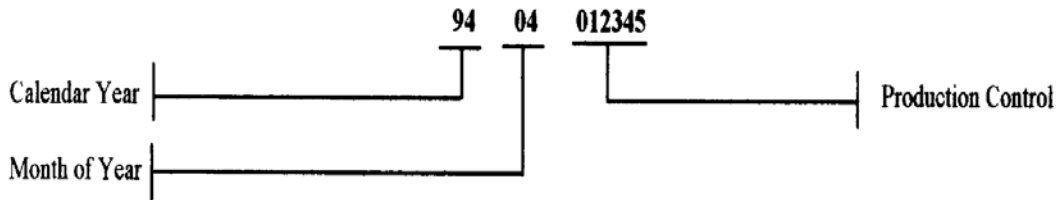


**VIKING SERIAL NUMBER LOGIC  
JULY 24, 1995 BAR CODE**

**RANGES AND 36" WIDE OVENS**



**27" W. OVENS**



**VIKING RANGE CORPORATION  
PRODUCT WARRANTY**

**COOKING PRODUCTS**

**FREE STANDING GAS RANGES**

- \* 90 DAYS-GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR LIMITED WARRANTY-SURFACE BURNER, GRIDDLE TUBULAR BURNER, GRILL TUBULAR BURNER (PART ONLY)
- \* 10 YEAR LIMITED WARRANTY-ANY PORCELAIN OVEN OR PORCELAIN INNER DOOR WHICH **RUSTS THROUGH**

**DUAL FUEL RANGES**

- \* 90 DAYS-GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR LIMITED WARRANTY-SURFACE BURNER, GRIDDLE TUBULAR BURNER, GRILL TUBULAR BURNER, BAKE ELEMENT, BROIL ELEMENT, OR CONVECTION COOK ELEMENT (PART ONLY)
- \* 10 YEAR LIMITED WARRANTY-ANY PORCELAIN OVEN OR PORCELAIN INNER DOOR PANEL

WHICH

**RUSTS THROUGH**

**ELECTRIC RANGES**

- \* 90 DAYS-GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR-ANY HALOGEN ELEMENT, BAKE ELEMENT, BROIL ELEMENT, OR CONVECTION COOK ELEMENT (PART ONLY)
- \* 10 YEAR LIMITED WARRANTY-ANY PORCELAIN OVEN OR PORCELAIN INNER DOOR PANEL WHICH **RUSTS THROUGH**

**GAS RANGETOPS**

- \* 90 DAYS -GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR LIMITED WARRANTY-SURFACE

**BURNERS,**

GRIDDLE TUBULAR BURNER, GRILL TUBULAR BURNER (PART ONLY)

**ELECTRIC RANGETOP**

- \* 90 DAYS-GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR-ANY HALOGEN ELEMENT, BAKE ELEMENT, BROIL ELEMENT, OR CONVECTION COOK ELEMENT (PART ONLY)

**GAS WALL OVENS**

- \* 90 DAYS-GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES

- \* 5 YEARS-OVEN TUBULAR BURNER (PART ONLY)
- \* 10 YEAR LIMITED WARRANTY-ANY PORCELAIN OVEN OR PORCELAIN INNER DOOR PANEL WHICH **RUSTS THROUGH**

**ELECTRIC WALL OVENS**

- \* 90 DAYS-GLASS, PAINTED, PORCELAIN AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEARS LIMITED WARRANTY-OVEN BAKE, BROIL, OR CONVECTION HEATING ELEMENTS
- \* 10 YEAR LIMITED WARRANTY-ANY PORCELAIN OR PORCELAIN INNER DOOR PANEL WHICH **RUSTS THROUGH**

**WARMING DRAWERS**

- \* 90 DAYS-PAINTED AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR LIMITED WARRANTY-HEATING ELEMENT

**VENTILATION PRODUCTS**

- \* 90 DAYS-PAINTED AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 2 YEAR LIMITED WARRANTY-BLOWER MOTOR OR EXTERIOR VENTILATOR MOTOR

**KITCHEN CLEAN-UP**

**DISHWASHER**

- \* 90 DAYS-PAINTED OR DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR LIMITED WARRANTY-MOTOR/PUMP AND WATER DISTRIBUTION SYSTEM COMPONENTS
  - \* CIRCULATION PUMP
  - \* DRAIN MOTOR/PUMP
  - \* FILL VALVE
  - \* LOWER WASH ARM
  - \* TUBE TO UPPER WASH ARM
  - \* UPPER WASH ARM
- \* 25 YEAR LIMITED WARRANTY-STAINLESS STEEL TANK OR INNER DOOR LINER WHICH DEVELOPS

**A**

**WATER LEAK**

**TRASH COMPACTORS**

- \* 90 DAYS-PAINTED OR DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY-COMPONENTS AND ACCESSORIES
- \* 5 YEAR LIMITED WARRANTY-DRIVE SYSTEM MOTOR

**DISPOSERS**

- \* VCFW 1020 AND VBFW
- \* 7 YEAR FULL WARRANTY
- \* VCHW 1000 AND VBHW 1030
- \* 5 YEAR FULL WARRANTY

## PRODUCT WARRANTY (CONTINUED)

### REFRIGERATION PRODUCTS

#### REFRIGERATION

- \* 90 DAYS-PAINTED OR DECORATIVE ITEMS
- \* 2 YEARS FULL WARRANTY
- \* 6 YEARS FULL WARRANTY ON SEALED SYSTEM COMPONENTS
  - \* COMPRESSOR
  - \* CONDENSER
  - \* DRYER/STRAINER
  - \* EVAPORATOR
  - \* CONNECTING TUBING
- \* 12 YEAR LIMITED WARRANTY-SEALED SYSTEM COMPONENT (PARTS ONLY)
  - \* COMPRESSOR
  - \* CONDENSER
  - \* DRYER/STRAINER
  - \* EVAPORATOR
  - \* CONNECTING TUBING

#### ICE MAKER

- \* 90 DAYS-PAINTED OF DECORATIVE ITEMS\
- \* 2 YEAR FULL WARRANTY
- \* 6 YEAR FULL WARRANTY ON SEALED SYSTEM COMPONENT
  - \* COMPRESSOR
  - \* CONDENSER
  - \* DRYER/STRAINER
  - \* EVAPORATOR
  - \* CONNECTING TUBING
- \* 12 YEAR LIMITED WARRANTY-SEALED SYSTEM COMPONENT (PART ONLY)
  - \* COMPRESSOR
  - \* CONDENSER
  - \* DRYER/STRAINER
  - \* EVAPORATOR
  - \* CONNECTING TUBING

#### WINE COOLER

- \* 90 DAYS-PAINTED OR DECORATIVE ITEMS
- \* 2 YEAR FULL WARRANTY
- \* 6 YEAR FULL WARRANTY ON SEALED SYSTEM COMPONENT
  - \* COMPRESSOR
  - \* CONDENSER
  - \* DRYER/STRAINER
  - \* EVAPORATOR
  - \* CONNECTING TUBING
- \* 12 YEAR LIMITED WARRANTY-SEALED SYSTEM COMPONENT (PART ONLY)
  - \* COMPRESSOR
  - \* CONDENSER
  - \* DRYER/STRAINER
  - \* EVAPORATOR
  - \* CONNECTING TUBING

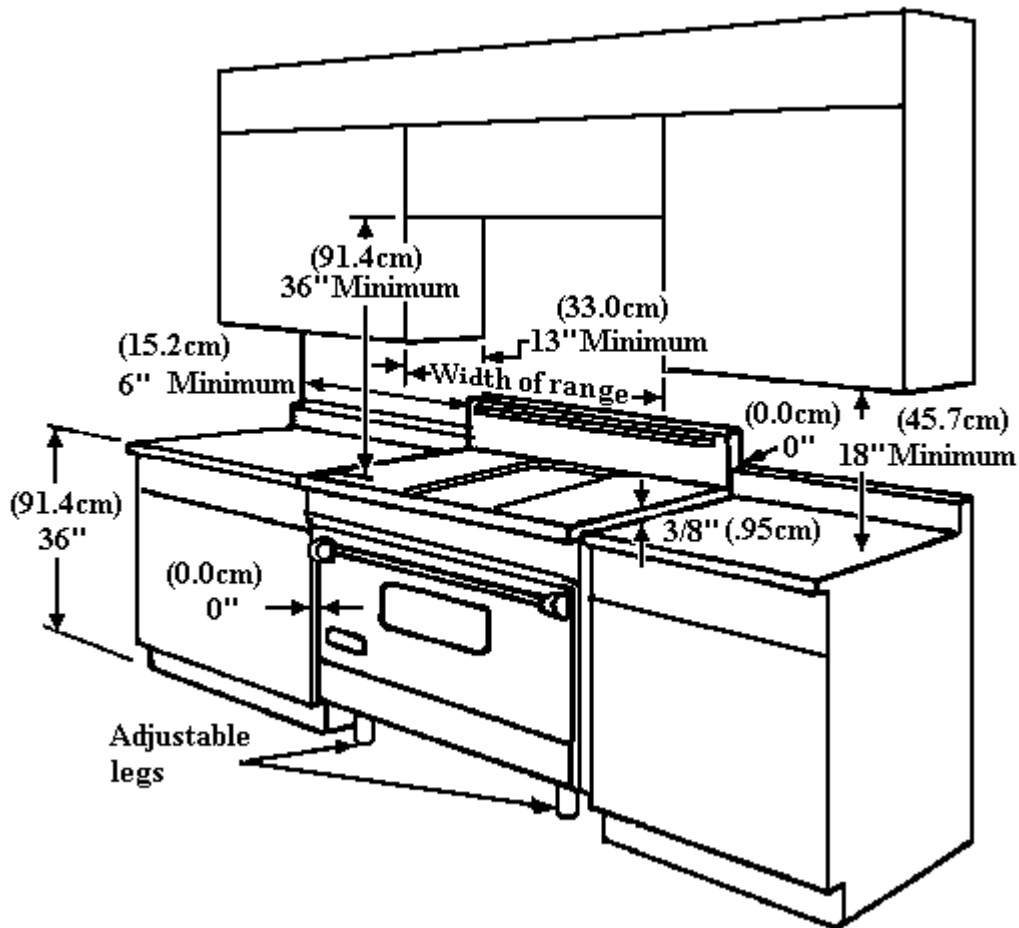
### OUTDOOR PRODUCTS

#### GAS GRILLS

- \* 90 DAY-PAINTED, PORCELAIN, AND DECORATIVE ITEMS
- \* 1 YEAR FULL WARRANTY
- \* 5 YEAR LIMITED WARRANTY-CAST IRON BURNER ASSEMBLIES, INFRARED ROTISSERIE BURNERS, AND PORCELAIN GRILL GRATES
- \* LIFETIME WARRANTY-STAINLESS STEEL PART WHICH **RUST THROUGH**

## PROXIMITY TO SIDE CABINET INSTALLATION

1. This range may be installed directly adjacent to existing 36" high base cabinets. **IMPORTANT-** the top grate support **MUST BE** 3/8" above the adjacent base cabinet countertop. This may be accomplished by raising the unit using the adjustment spindles on the legs. (The countertops **CANNOT** be higher than 37 1/2" due to the high BTU burners.)
2. The range **CANNOT** be installed directly adjacent to sidewalls, tall cabinets, tall appliances, or other side vertical surfaces above 36" high. There must be a minimum of 6" side clearance from the range to such combustible surfaced above the counter height.
3. Within the 6" side clearance to combustible vertical surfaces above 36", the maximum wall cabinet depth must be 13" and wall cabinets within 6" side clearance must be 18" above the 36" high countertop.
4. Wall cabinets above the range must be a minimum of 36" above the range cooking surface for the full width of the range.



	30" W Models	36" W Models	48" W Models	60" W Models
Overall Width	29 7/8" (75.9cm)	35 7/8" (91.1cm)	47 7/8" (121.6cm)	59 1/2" (151.1cm)

## GAS CONNECTIONS

The gas supply (service) line must be the same size or greater than the inlet line of the appliance. This range uses a ½" I.D. NPT (Sch40) inlet. Sealant on all pipe joints must be resistive to Lp gas.

### 1. Manual Shut-off Valve:

This installer supplied valve must be installed in the gas service line ahead of the appliance and regulator in a position where it can be reached quickly in the event of an emergency.

### 2. Pressure Regulator:

a) All heavy-duty, commercial-type cooking equipment must have a pressure regulator on the incoming service line for safe and efficient operation, since service pressure may fluctuate with local demand. External regulators are not required on this range, because a regulator is built into each unit at the factory. **UNDER NO CONDITION BYPASS THIS BUILT-IN REGULATOR.**

b) Any conversion required must be performed by your dealer or a qualified licensed plumber or gas service company. Please provide the service person with this manual before work is started on the range.

**( GAS CONVERSIONS ARE THE RESPONSIBILITY OF THE DEALER OR END USER.)**

c) This range can be used with Natural gas or LP/Propane. It is shipped from the factory adjusted for use with natural gas. The orifice hoods must be screwed snug when LP/Propane is used. (See LP/Propane conversion).

d) Manifold pressure should be checked with a manometer, natural gas requires 5.0"WC and LP gas requires 10.0"WC. Incoming line pressure upstream from the regulator must be 1.0"WC higher than the manifold pressure in order to check the regulator. The regulator used on this range can withstand a maximum input pressure of ½ PSI (14.0" WC). If the line pressure is in excess of that amount, a step-down regulator will be required.

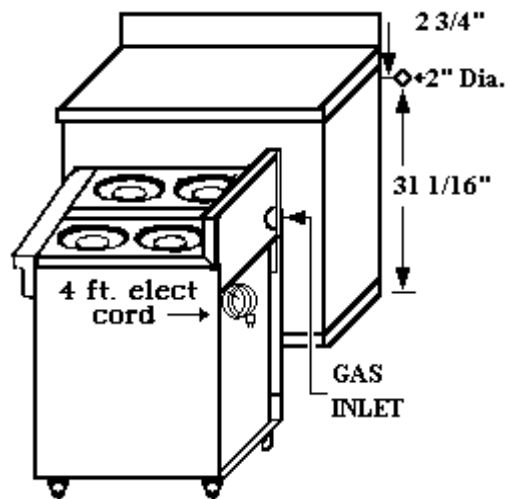
e) The appliance, its individual shut-off valve, and pressure regulator must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of 1/2psig (3.45kPa).

f) The 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 piping system at test pressures equal to or less than ½ psig (3.45kPa).

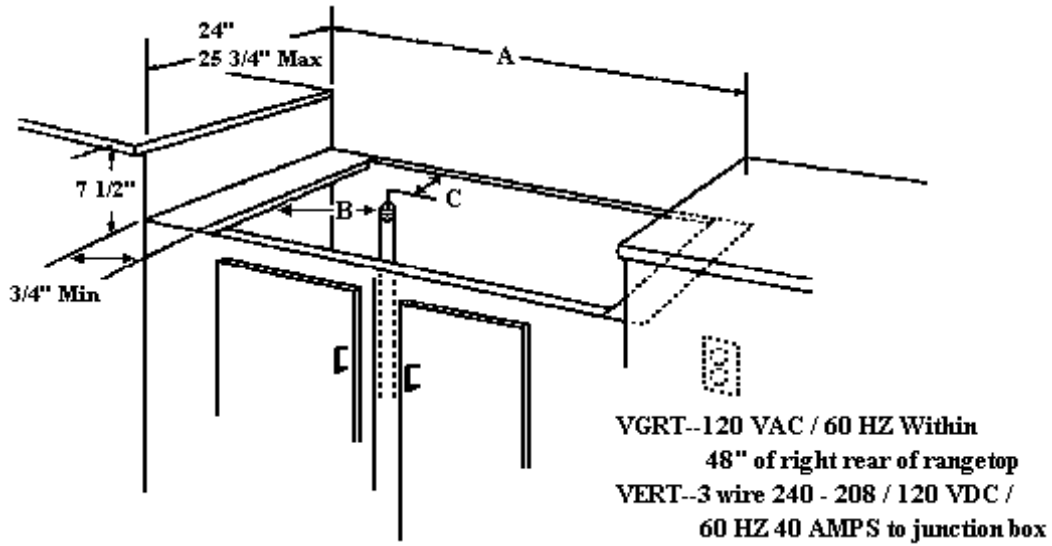
### 3. Flexible Connections:

a) If the unit is to be installed with flexible couplings and/or quick-disconnect fittings, the installer must use a heavy duty, A.G.A. design certified commercial flexible connector of at least ½" ID NPT ( with suitable strain reliefs) in compliance with ANSI Z21.69.

b) **In Canada:** CAN 1-6. 10-88 metal connectors for gas appliance and CAN 1-6.9 M79 quick disconnect devices for use with gas fuel.



## RANGETOP CUTOUT and SPECIFICATIONS



VGRT	A	B	C
<b>30" W. MODELS</b>	<b>30" (76.2 cm)</b>	<b>3" (7.6cm)</b>	<b>2 1/4" (5.7 cm)</b>
<b>36" W. MODELS</b>	<b>36" (91.4 cm)</b>	<b>3" (7.6 cm)</b>	<b>2 1/4" (5.7 cm)</b>
<b>48" W. MODELS</b>	<b>48" (121.9 cm)</b>	<b>3" (7.6 cm)</b>	<b>2 1/4" (5.7 cm)</b>
<b>60" W. MODELS</b>	<b>59 1/2" (151.4 cm)</b>	<b>14 3/8" (36.5 cm)</b>	<b>9/16" (1.8 cm)</b>

**1. Gas Line Requirements:**

- a. Gas pipe size should be 3/4" (1/2" inside diameter)
- b. Gas pipe should be 3" or less from floor and 6" from left to center of unit to allow for the flex line.
  - i.e. 30" range 6"-15" from left                      48" range 6"-24" from left
  - 36" range 6"-15" from left                      60" range 6"-30" from left

**If it is higher than 3" from the floor, the range will not fit flush against the wall and The shutoff valve will not be accessible.**

**2. Electrical Requirements:** Gas ranges, gas rangetops, and Gas cooktops require a 120 volt electrical outlet (GFI ground fault outlet not recommended).

- a. 3" or less from the floor and 6" from the right to center of the unit.
  - i.e. 30" range 6"-15" from right                      48" range 6"-24" from right
  - 36" range 6"-18" from right                      60" range 6"-30" from right