

### Gas Convection Oven CNCG

#### For Your Safety

Do NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this, or any other

#### ⚠ Warning!

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operation and maintenance



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All the information and guidelines of this user's manual comply with certain applicable regulations, which come out from our long-term accumulated knowledge and experience as well as current project development situations.

Limited to some special structures, additional specified items or new technology changes, the actual usage situation might be some different from what stated in this user's manual. Should you have any questions, please do not hesitate to contact the manufacturer via the method shown in back cover page of this manual.

For safety purposes and efficient operation, please make this document available to users for reference. Do have them to read this manual carefully before carry out any action on this device, especially when starting.

**The manufacturer declines any responsibility in the event users do not follow the instructions or guidelines stated here.**

The user's manual should be placed close to the device, in convenience of users' reading before operation. We have the full authority to reserve the further technical changes of the device, in the scope of further performance improvement characteristic development. The manual be retained for future reference.

**FOR YOUR SAFETY**

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.



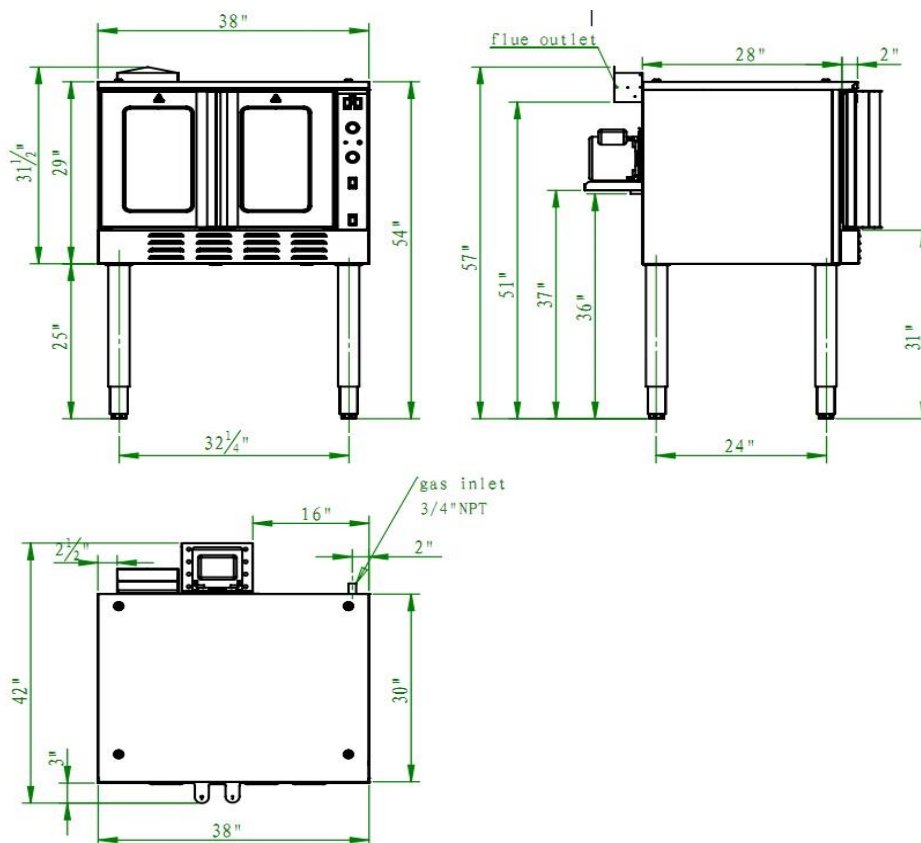
## Warning

- ◆ Any self-modification, wrong installation, adjustment or maintenance can lead to property loss or casualty. Please contact the manufacturer for any adjustment or maintenance, and have the work done by a trained & qualified person.
- ◆ For your safety sake, please keep the machine away from any liquid, gas or other object, which is flammable or explosive.
- ◆ Keep the appliance area free and clear from combustibles
- ◆ Do not obstruct the flow of combustion and ventilation air
- ◆ The installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff 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).
- ◆ The installation shall be made with a connector that complies with the Standard for Connectors for Movable Gas Appliances, ANSI Z21.69 • CSA 6.16, and a quick-disconnect device that complies with the Standard for Quick-Disconnect Devices for Use With Gas Fuel, ANSI Z21.41 • CSA 6.9, (2) adequate means must be provided to limit the movement of the appliance without depending on the connector and the quick-disconnect device or its associated piping to limit the appliance movement and (3) the location(s) where the restraining means may be attached to the appliance shall be specified.
  
- ◆ Keep Adequate clearance for air openings into the combustion chamber
- ◆ Keep Adequate clearances for servicing and proper operation
- ◆ This appliance should not be operated by those who have physiological, perceptual or mental disabilities or those who have insufficient experience or knowledge (including children). Only in conditions of being given sufficient supervise & guarantee of personal safety, as well as proper instructions & guidance, those who were mentioned above can make some particular operation of this device.
- ◆ Keep children away from the device.
- ◆ Preserve this manual safely. When passing on/selling the device to a third party, the manuals must be handed over along with the device. All users must operate the device complying with the user's manual and related safety guidelines.
- ◆ Do not store or use gas, liquid or object that is flammable or explosive in vicinity of the mounting position.
- ◆ If the appliance is placed near walls, partitions or kitchen furniture and the like, it is advisable to make these facilities with non-combustible material, otherwise cover them with non-combustible heat-resistant material, and pay attention to fire prevention regulations.

## 1. Functional Introduction

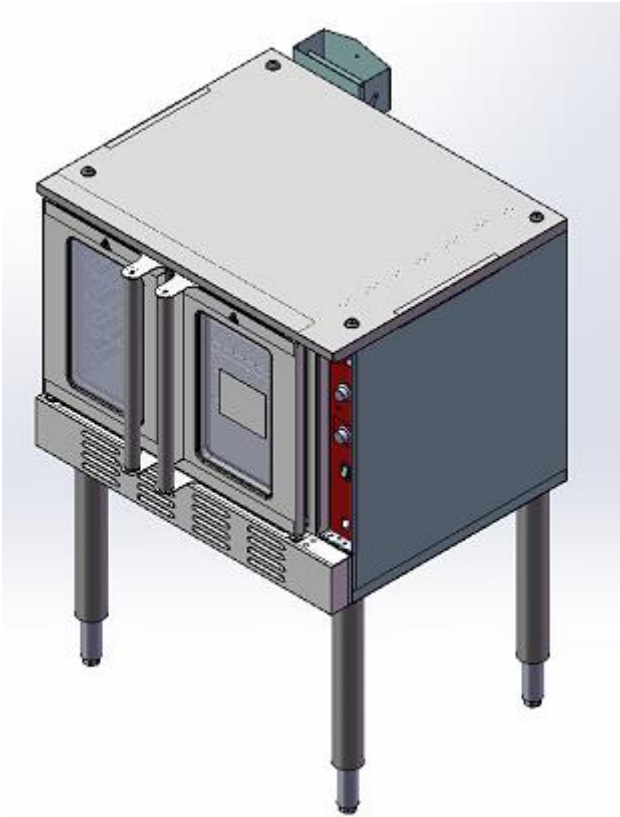
Sturdy steel structure with 4 legs that can be adjusted in height. Equipped with built-in convection fan(s), ensuring the temperature uniformity in chamber. Also, provided with automatic ignition system in the case of flameout, and a shutdown device which will stop trying to ignite the burner(s) after 3 attempts, so as to guarantee the safe use of gas. The electronic automatic thermostatic device, with less temperature controlled offset, could set desired cooking temperature in accordance with requirements. Moreover, the over-temperature protection device prevents damages caused by temperature rise that is too high.

## 2. Structure Schematic Diagram & Working Principle

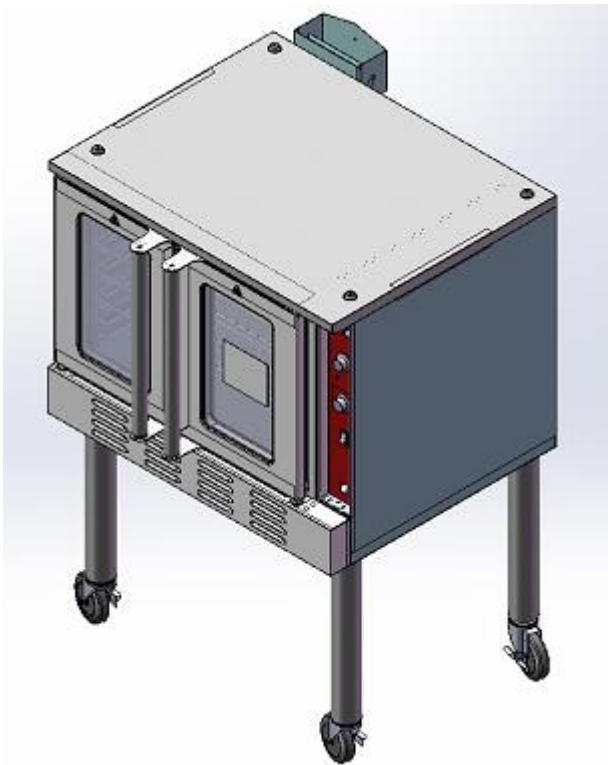


FGC100A

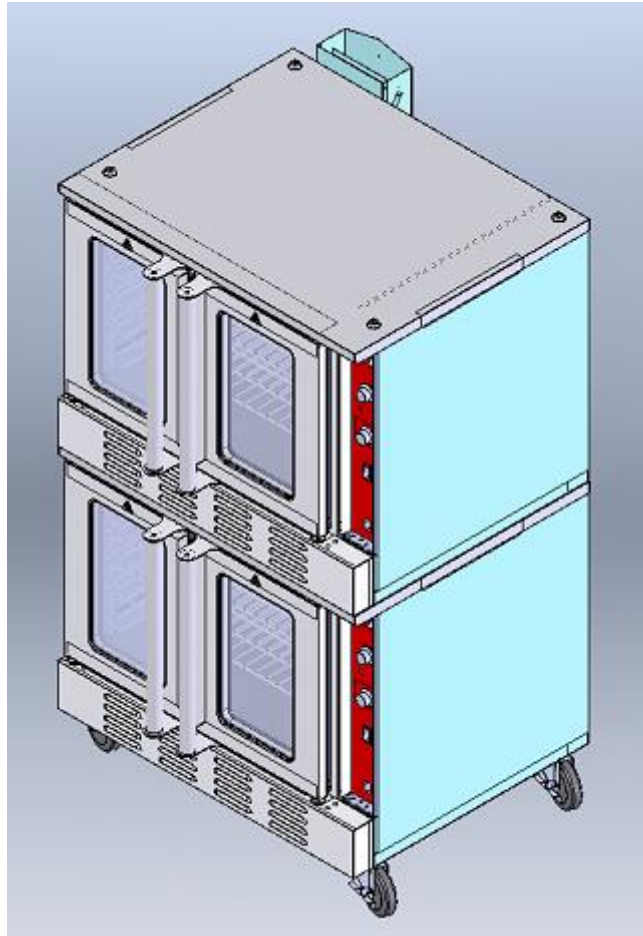
**GGC100A Gas Convection Oven**



**GGC100 and GGC100B Gas Convection Oven**



## GGC100C Gas Convection Oven



### 3. Basic Features & Parameters

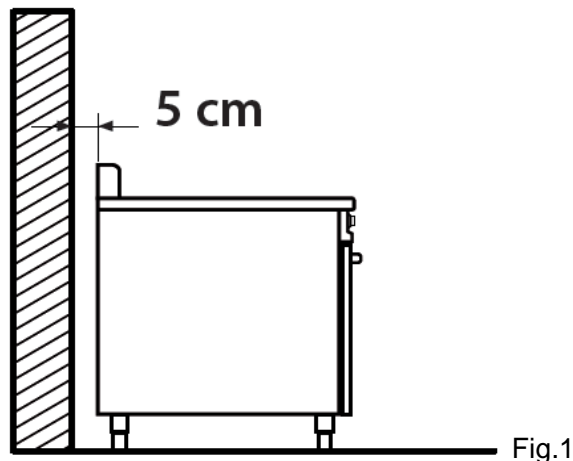
Parameters		Model		GGC100, GGC100A, GGC100B	FGC100C
Dimension ( mm )				970×1060×1450	1940×2120×1600
Rated Power ( BTU )				54000	108000
Gas type	LP(Propane)	10"		10"	10"
	NG	4"		4"	4"
Orifice Size / mm	LP (propane)			1.25	1.25
	NG			2.0	2.0
Voltage ( V )				AC120V/60HZ	AC120V/60HZ
Oven Capacity: (L)				730×650×500	730×650×500

Temperature Range ( F )	150—550	150—550
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## 4. Precautions & Recommendations

### 8620.5 Installment

1. Before beginning the installation, remove the packaging. A few parts are protected with an adhesive film, which should be removed carefully. Remove any glue residual with the proper substances, such as petrol; never use abrasive substances.
2. Mount the unit feet; the unit must be leveled; small differences of height can be solved by adjusting the feet.
3. The connections to the gas and/or electric network must be close to the appliance and easy to reach.
4. We recommend placing the unit under a suction hood so that vapor can quickly evacuate.
5. Install the unit at least 5cm from the wall if the wall does not bear a minimum temperature of 150°C (see Fig.1). If the unit is placed very close to the wall, partition walls, kitchen cabinets, decorative walls, etc., we recommend that they are made with a non-combustible material with a proper thermal insulation. Pay a lot of attention to regulations concerning fire prevention.



#### Attention:

- Air necessary for the burner combustion is equal to 2 cum/h per each Kw of installed power.
  - Do not locate the oven adjacent to any high heat or grease-producing piece of equipment, such as a range top, griddle, fryer, etc., that could allow radiant heat to raise the exterior temperature of the oven above 130°F ( 54°C ) . Do not mount above other cooking equipment.
6. **Law provisions, technical regulations and directives:** The manufacturer declares that the appliances comply with the EEC directives and the particular reference regulations. The manufacturer requires the installation to be performed according to the regulations in force. Before installing, check that the following provisions are met:
    - Building regulations and local fire prevention measures

- Accident prevention regulations in force
  - Local Gas Board regulations
  - Local electric energy supply Board regulations
7. **Running the appliance on other types of gas:** To change over to another type of gas, for example from methane to liquid, use the correct type of nozzles for the burner in accordance to the “Burners” table. The burner nozzles for different types of gas, marked in 100ths of a mm, are in a case supplied with the appliance. When the appliance has been transformed or adapted, recheck its functions as described in the “Checking the functions” paragraph. After the appliance has been transformed or adapted, specify the new gas type on the plate.
  8. **Checking the functions:** Start the appliance; check the gas pipes for leaks; check the burner flame, even at the minimum.
  9. **Notes for the installer:**
    - Explain and demonstrate how the appliance works to the user according to the instructions, and hand him the user’s manual.
    - Remind the user that, in the event of any structural alterations or modifications to the room that houses the appliance, the appliance functions must be rechecked.
  10. **Room ventilation:**
    - The room where the appliance is installed must be fitted with air intakes to guarantee the correct operation of the unit and air exchange. Air necessary for the burner combustion is equal to 2 cum/h per each Kw of installed power. The air intakes must be of adequate dimensions, be protected by grids and positioned free of any obstruction.
    - Do not install the appliance close to other units that can reach high temperature: the electrical components might be damaged.
    - During installation, make sure the air suction and evacuation ways are free from any obstacles.

## 4.2 Gas Connection

1. The serial plate is located inside the lower front panel. It indicates the type of gas the unit is equipped to burn. All our equipment is adjusted at the factory. Check type of gas on serial plate.
2. The appliance is design-certified for operation on natural or propane gases, it should be connected only to the type of gas for which it is equipped.
3. A  $\frac{3}{4}$ ” NPT line is provided at the rear for the gas connection. An adequate gas supply is imperative. Undersized or low pressure lines will restrict the volume of gas required for satisfactory performance. Fluctuations of more than 25% on natural gas or 10% on propane gas will create problems and affect burner operating characteristics.
4. An adequate gas supply line to the unit should be no smaller than the inside diameter of the pipe from the unit to which it is connected.



5. Purge the supply line to clean out dust, dirt, or other foreign matter before connecting the line to the unit.
6. All pipe joints and connections must be tested thoroughly for gas leaks. Use only soapy water for testing on all gases. Never use an open flame to check for gas leaks. All connections must be checked for leaks after the unit has been put into operation.

### 4.3 Electric Connection

1. Before connecting the appliance to the network, check the following:
  - Network voltage corresponds to the data written in the plate.
  - Grounding is efficient.
  - The connection cable is suitable to the power absorbed by the appliance.
2. Place a device before the appliance itself that allows the unit's disconnection from the mains circuit in an omnipolar way; this device must have an opening of contacts of at least 3mm. safety switches can be used. The omnipolar switch must be close to the appliance, be approved and have a section suitable to the appliance.
3. The cable must have features similar to the H07 RN-F type. The YELLOW-GREEN ground cable must be longer than the others in the event that, if the cable stopper breaks, the cable will disconnect after the tension cables. **The YELLOW-GREEN cable must never be broken.**
4. Equipotential: The appliance must be connected to an equipotential system. The terminal is positioned close to the cable input. It is marked by a label:



#### **Warning: ELECTRIC GROUNDING INSTRUCTIONS:**

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

### 4.4 Exhaust System

1. The appliances must be positioned in suitable areas for the discharge of the combustion products in respect to how much is prescribed by the installation's norms. Our appliances are classified as type "A" gas units.
2. These appliances are not designed to be connected to an evacuation duct for the discharge of combustible products.
3. These appliances must discharge the combustible products into appropriate hoods, or similar devices, connected to a flue of proven efficiency, or they may be connected directly to an outdoor vent.

4. If such an arrangement is not possible, the unit may be connected to an air exhaust system that leads directly outdoors, having a capacity no lower than required; see the technical data table, plus the air exchange necessary, in order to make operators comfortable.

## **4.5 Warnings**

1. Always supervise the appliance while being used and never let it run while empty.
2. The appliances do not require special adjustment assistance from specialized personnel if the adjustments are carried out by the user during the use of the appliance.
3. Use only the accessories recommended by the manufacturer.
4. During the initial uses of the appliance, an acrid or burning smell may be detected. This will disappear after two or three uses.
5. After use, the areas are hot for a certain amount of time (residual heat). Avoid resting your hands on them and allowing children to get too close.
6. These are very important regulations; if they are neglected, the appliance may not perform properly or the user may be placed at risk.
7. The appliance is strictly for professional use and must be used by qualified personnel.
8. The installation, start-up and maintenance of the appliance must be carried out by qualified personnel.
9. All installation works must be carried out according to the law in force. The manufacturer is not responsible for damages due to an incorrect installation, bad maintenance or incorrect use.

## **5. Working Instructions & Operation Flow**

### **5.1 Lighting, Relighting, and Shutdown Instructions**

- To light the oven, just switch the power switch at the top left corner of the control panel to the “ON” position. (The oven is equipped with a direct hot surface ignition system. There is no pilot to light.)
- If the burners fail to ignite within four seconds, the oven will automatically shut off the gas, wait five minutes to allow the gas that was released to dissipate, and try to light the burners again. If the burners still fail to ignite after three such attempts, the oven will stop trying, even though the power switch is in the “ON” position. To continue to attempt to light the burners, turn the power switch “OFF” and then “ON” again.
- To shutdown the oven, switch the power switch to the “OFF” position. For a complete shutdown, also open the control panel and turn the manual shut-off valve to the “OFF” position.

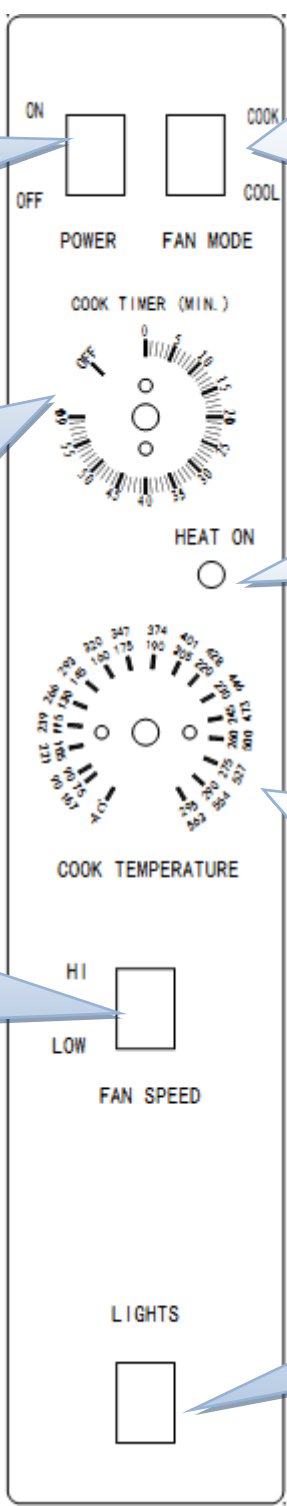
### **5.2 Operating the Controls**

A convection oven is a different type of oven that offers many features and advantages to the food service operation. The additional capabilities and features of the oven require some learning. However, the operation of the oven is not difficult to understand or control once you have some practice. See the controls in the following feature:

**Power Switch:**  
Switch ON to use the oven, switch OFF when done using the oven.

**Cook Timer:**  
Turn knob to set a time duration. An alarm will sound when the timer runs out. Turn the knob to OFF to cancel the alarm. The timer is a reminder to the user; the timer does not control the oven.

**HI/LOW Fan Speed:**  
Use to select fan speed (HI or LOW). The appropriate speed is determined by the type of food being cooked.



**Fan Mode:**  
In COOK mode, the fan runs continuously except when the doors are open. The fan does not cycle with the operation of the burners. In COOL mode, the fan runs continuously even if the doors are open. To rapidly cool the oven after cooking is completed, open the doors and switch the fan mode to COOL.

**HEAT-ON Indicator:**  
The HEAT-ON indicator will light when the burners are on and will remain on while the oven preheats.

**Cook Temperature Control:**  
Turn the knob to desired temperature. When the set point is reached, the HEAT ON indicator will be off. When the burners maintain in the set temperature, the indicator will cycle on or off.

**Oven Interior Light Switch:**  
Press to turn on the light. The light is controlled independently.

### 5.3 Operations

Turn the oven ON and select a cooking temperature. Two additional controls are used to control the fan (as described below).

The timer is a reminder to you of when to remove food from the oven. The timer does not control the temperature of the oven.

To cook, do the following:

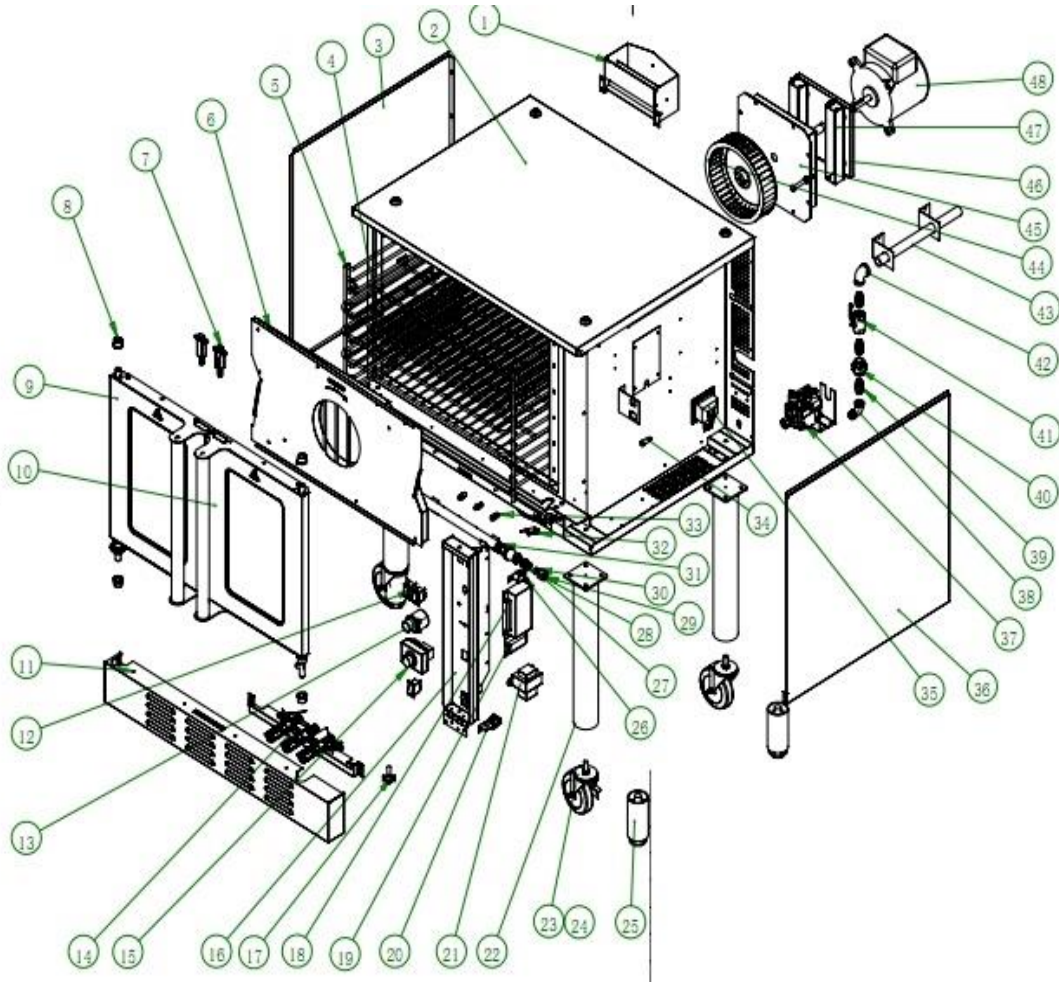
1. Turn the oven ON using the Power Switch at the top of the control panel.
2. Select the desired fan speed using the Fan Speed switch. The appropriate fan speed (HI or LOW) depends on the type of food being cooked.
3. Switch the Fan Mode switch to COOK. The fan will run continuously when the oven doors are closed (the fan does not cycle on and off with the burners). (If this switch is set to COOL, the only difference is that the fan will continue to run when the oven doors are open.)
4. Set the cooking temperature by turning the Cook Temperature Control until the indicator mark on the knob is pointed to desired cooking temperature. The HEAT ON indicator will light when the burners are on and will remain on while the oven preheats.
5. Wait until the HEAT ON indicator has come on and gone out three times. At that time the oven will have reached the set cooking temperature.
6. Open the oven doors, load the product into the oven, and close the doors.
7. You can use the Cook Timer as a reminder of when to remove the load from the oven. If so desired, turn the Cook Timer knob until the indicator mark points to the desired cooking time (up to 55 minutes). The timer knob will rotate counterclockwise as the timer runs down, indicating how much time remains. You can turn the knob while cooking to increase or decrease the remaining time. When the timer runs out, a buzzer will sound for a short time, then turn itself off. (To immediately silence the buzzer, turn the Cook Timer knob to the OFF position.) The timer is a reminder to you; the timer does not control the oven.

If you open the oven doors, the burners and fan will shut off until the doors are closed. However, the timer will continue running even if the doors are open.

For ovens that are equipped with an oven interior light, to turn on the light, press and hold the switch located at the bottom of the control panel.

8. When the load has finish cooking, you can rapidly cool the load by opening the oven doors (which will shut off the burners) and switching the Fan Mode to COOL (which will cause the fan to run even though the doors are open). For the most rapid cooling, also switch the Fan Speed switch to HI.
9. When you are done cooking, turn the Cook Temperature Control to the lowest setting (fully counterclockwise) and switch the Power Switch to OFF.

# Gas Convection Oven



# Gas Convection Oven Parts List

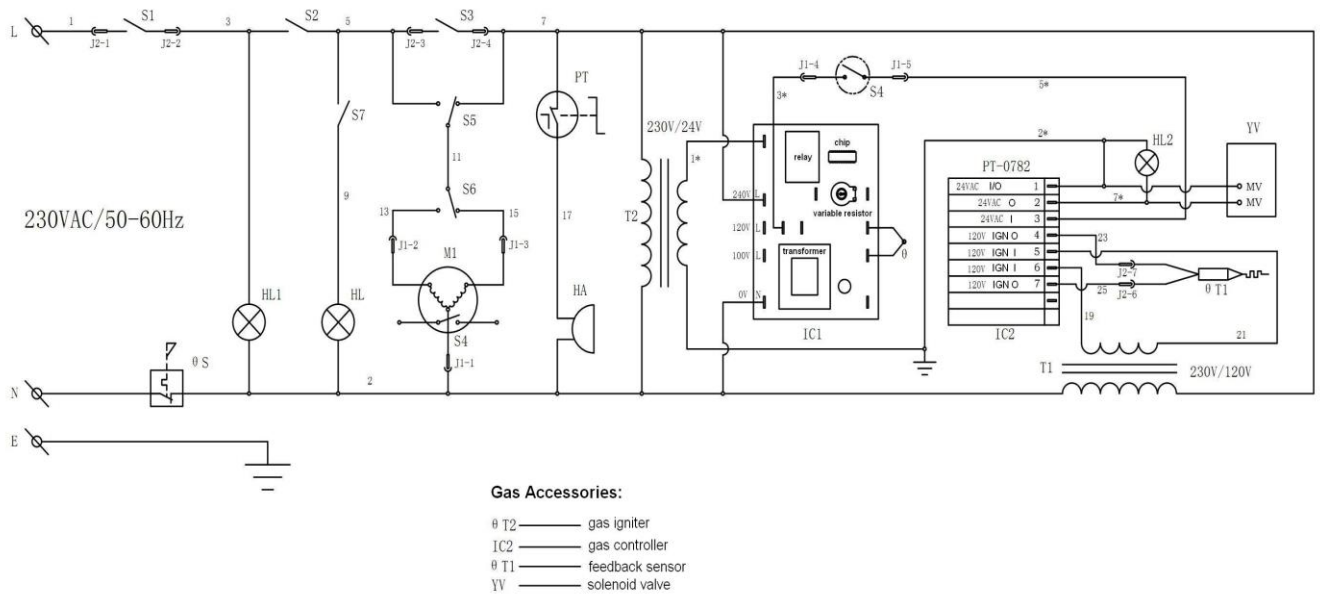
DiagramNumber	Part Number	Part Name
1	FGC100-16-00	REAR FLUE assembly
2	FGC100-15-00	top cover assembly
3	FGC100-00-01	LEFT SIDE PANEL
4	FGC100-00-08	RACK
5	FGC100-00-07	RACK HOLDER
6	FGC100-30-00	CONVECTION/HOT AIR COMPARTMENT ASSEMBLY
7	FGC100-47-00	DOOR STOPPER ASSEMBLY
8	FGC100-40-03	DOOR SHAFT BUSH
9	FGC100-42-00	LEFT DOOR ASSEMBLY
10	FGC100-41-00	RIGHT DOOR ASSEMBLY
11	FGC100-00-03	LOWER FRONT COVER PLATE
12	" RL2(P)-22-0-BK/BK-P1 "	WATER-PROOF SWITCH
13	301120028	TIMER
14	FGC100-63-00	BURNER ASSEMBLY
15	301030169	THERMOSTAT
16	FGC100-20-00	CONTROL PANEL ASSEMBLY
17	302170039	HOT SURFACE IGNITER
18	301150304	IGNITION CONTROLLER
19	/	TERMINAL HOUSING PLUG
20		MICRO SWITCH
21	301100149	TRANSFORMER
22		FOOT
23		CASTER WITH BRAKE & Without break
24	302201872	NUT
25	302090088	LEG
26	301100086	BUZZER
27		STRAIGHT TUBE
28	302140077	CONNECTOR
29	302140080	NUT
30	302140079	HOOP
31	FGC100-62-01	MANIFOLD

# Gas Convection Oven Parts List (Cont.)

32	301080079	TRAVEL SWITCH
33		NOZZLE
34	301130140	INDICATOR LIGHT
35	77.728.9154 (120V UL	LAMP
36	FGC100-00-02	RIGHT SIDE PANEL
37		VALVE
38	302060152	ELBOW
39	302060040	CONNECTOR
40	302060046	CONNECTOR
41		BALL VALVE
42	302060151	ELBOW
43	FGC100-61-02	Intake pipe
44		TURBO FAN
45	FGC100-50-01	HEAT SHIELD ASSEMBLY
47	FGC100-50-09	MOUNTING CONTOUR POST
48		MOTOR



## 6. Electrical Diagram:



## 7. Cleaning & Maintenance

1. Before cleaning, switch off the unit and let it cool down.
2. Carefully clean daily the appliance to guarantee its proper operation and long life.
3. Steel surfaces must be cleaned with a dish washer detergent diluted in very hot water by using a soft cloth; for the toughest dirt, use ethylic alcohol, acetone or another non-halogenated solvent; do not use abrasive powder detergents or corrosive substances such as hydrochloric acid, muriatic or sulphuric acid. The use of acids can affect the unit's operation and safety. Do not use brushes, steel cottons or abrasive disks made with other metals or alloys that might cause rust stains due to contamination. For the same reason, avoid contact with iron objects. Do not use steel cottons or stainless steel brushes because whilst they will not contaminate surfaces, they can cause damaging scratches.
4. Metal powder, metal shavings from working and iron material in general, when in contact with stainless steel surfaces, can cause rust stains. Superficial rust stain might be present on new appliances and they can be removed with a detergent diluted in water and a Scotch Brite sponge. If dirt is tough, do not use sandpaper or rough paper, but use synthetic sponges (for example Scotchbrite sponges).
5. Do not use substances for cleaning silver and be careful with hydrochloric or sulphuric vapors coming from floor washing products, for example. Do not aim water jets directly on the appliance, it might be damaged. After cleaning, rinse properly with clean water and dry carefully with a cloth.
6. The appliances are made in a way that little maintenance is necessary. Despite this, we recommend that the user subscribes to a maintenance agreement to have the appliance checked at least once a year by the specialized personnel of our assistance service or by a specialized technician.
7. **Before carrying out any maintenance or repair, disconnect the appliance from the gas network or cut off the mains. Use only original spare parts supplied by the manufacturer.**



8. If the appliance is not used for long period of time, please clean the equipment and the surrounding areas properly. Pour a small quantity of cooking oil on the stainless steel surfaces. Carry out all maintenance operations. Cover all appliances with a suitable material and leave a few openings to allow air to circulate.