

# Gas stove Operation and Install Instructions

**WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.**

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any electrical switch.
  - Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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## IMPORTANT NOTE

To ensure this product is installed and operated as safely and efficiently as possible, take note of the following types of highlighted information throughout this guide:

**Important note** highlights information that is especially important.

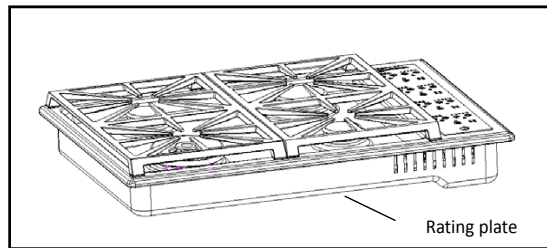
**Caution** indicates a situation where minor injury or product damage may occur if instructions are not followed.

**Important note:** throughout this guide, dimensions in parentheses are millimeters unless otherwise specified.

**Important note:** save these instructions for the local electrical inspector.

## PRODUCT INFORMATION

Important product information including the model and serial number are listed on the product rating plate. The rating plate is located on the bottom of the gas stove. Refer to the illustration below.



Rating plate location

## Electrical

Installation must comply with all applicable electrical codes.

### Electrical requirements

Electrical supply	120 VAC, 60 Hz
Service	15 amp dedicated circuit
Receptacle	Two flat plug
Power Cord	4" (1.2m)

## OPERATION INSTRUCTION

- 1) Keeping appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- 2) Not obstructing the flow of combustion and ventilation air.

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7. Then remove all burner orifices with 7MM wrench counterclockwise;  
 "Save the orifices removed from the appliance for future use."

8. Remove the screw of regulator gauge

9. Put in a connector with 1/8-27NPT screw

10. connect a pressure gauge or U water gauge on connector to test the outlet pressure

LP GAS	WC
Supply pressure	10" (25 mb)
Min line pressure	11" (27.4 mb)
Max regulator pressure	14" (34.9 mb), 0.5 psi (3.5kPa)
Checking regulator pressure	11" (27.4 mb)

11. Turn on gas source and smear soap water on connector and pressure gauge or U water gauge, inspect the air tightness test, Bubbles around connections indicate a gas leak. If a leak appears, close the shut-off valve and adjust connections.

12. Put all BURNER CAP and BURNER HEAD back in place.

13. Ignite all burner, inspect pressure gauge or U water gauge whether pass or not

14. Turn off source gas, take off test equipment, put sealant on screw of pressure port, and put back to pressure port of regulator

15. Please reference step 11, inspect air tightness of test pressure port screw

16. Turn off source gas, take off BURNER CAP and BURNER HEAD after burner cold down

17. Put the panel back and tighten all locking screws with cross screwdriver;

18. Put the orifices to be changed to burner according to the form as below;

19. Put RACK and all BURNER CAP and BURNER HEAD back in place.

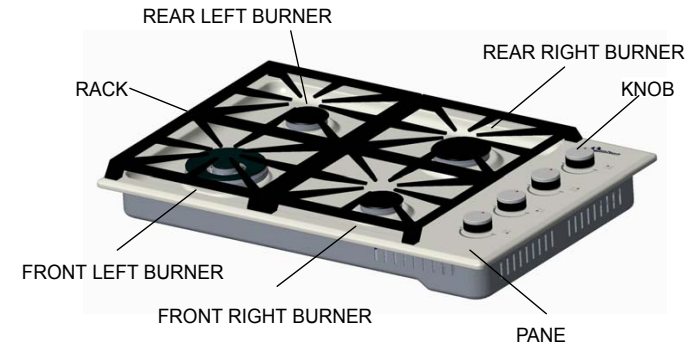
BURNER INPUT RATING(BTU/h)	NG		LPG	
REAR LEFT	Ø1.09	6000BTU	Ø0.74	6000BTU
REAR RIGHT	Ø1.42	10000BTU	Ø0.94	10000BTU
FRONT LEFT	Ø1.6/Ø0.7	15000BTU	Ø1.12/Ø0.44	15000BTU
FRONT RIGHT	Ø1.09	6000BTU	Ø0.74	6000BTU

Ignition test:

Please reference "Start the ignition operation" to inspect ignite system and situation of flame whether it is normal or not.

You should stick a transform label and date next to original sticker nameplate after transform.

MODLE : BT-4TH



## OPERATION

### Turning on and off/regulating

the control knob is used to turn on the burner and to regulate the strength of the flame.

"OFF" : Turned off

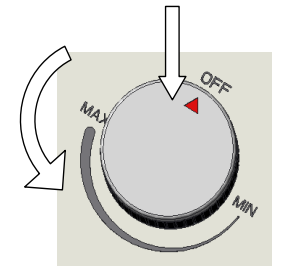
"MAX" : Highest flame

"MIN" : Lowest flame

The knob must only be turned left to turn the appliance on and right to turn it off.

If the knob is:

- turned on without pressing it down first,
  - turned clockwise to turn, or
  - turned counterclockwise to turn the cooktop off.
- parts of the cooktop could get damaged.



### Turning on

1. To turn on the burner, press the control knob down to pass the resistance, then release the pressure and turn it counterclockwise to the largest flame symbol. The ignitor will "click" and ignite the gas.

When the burner is turned on a spark is produced, this is normal and does not indicate a defect.

If the burner does not ignite or the flame goes out, turn the control knob to "OFF". Try again after a few seconds.

If the burner still won't ignite after the second attempt, turn the control knob to "OFF" and see "TROUBLESHOOTING".

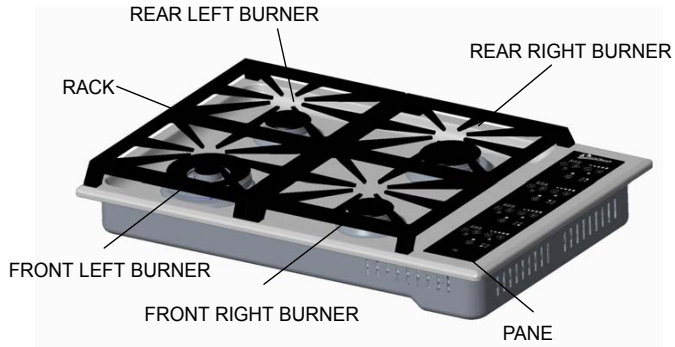
2. Adjust the knob to the desired setting.

### Turning off

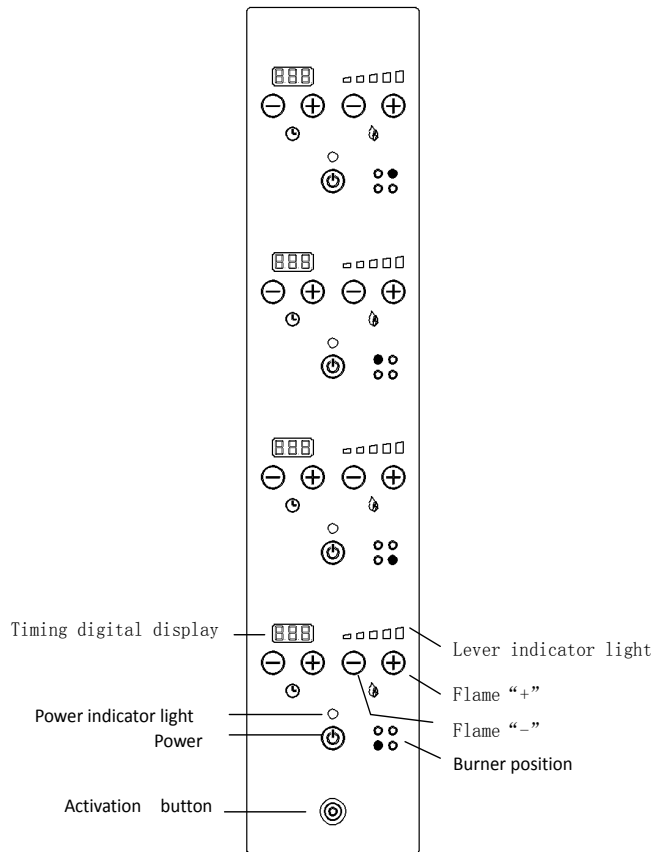
Turn the knob clockwise to "OFF".

This stops the flow of gas and turns off the cooktop.

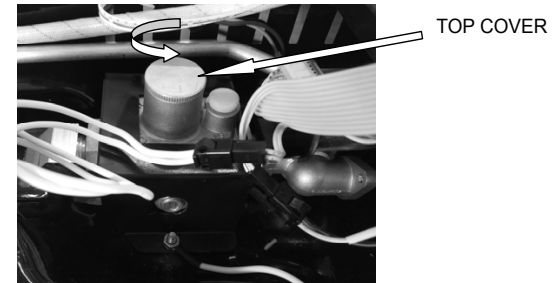
MODLE : BT-4TS



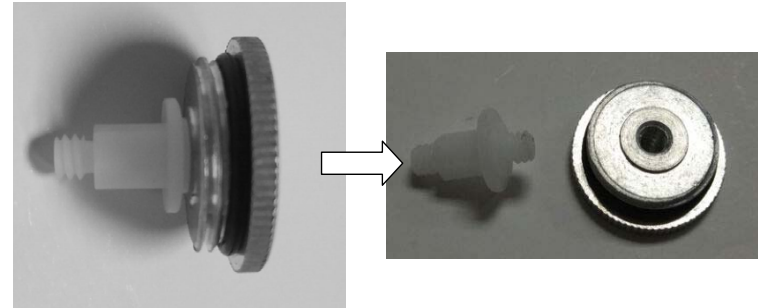
Operation panel



3. Screw the top cover off from the regulator;



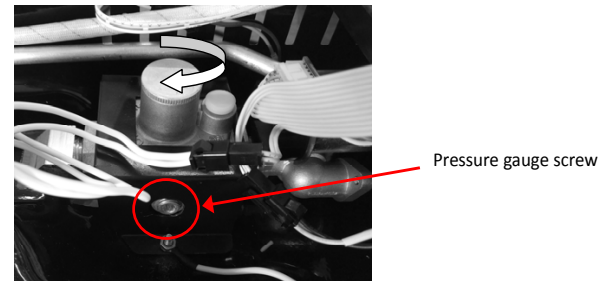
4. Screw the plastic stick off from the cover;



5. Screw the plastic stick back to the cover with another end;



6. Assemble the cover back to regulator



## Converting to another type of gas

The stove should have been ordered for connection to either natural gas or LP gas.

If the stove is not configured for the proper type of gas connection please contact your BURNTOUCH dealer.

If the appliance is to be connected to a type of gas other than it was originally configured for, both the regulator and burner must be converted. A conversion kit is available as an optional accessory from the BURNTOUCH technical service department.

## Gas configuration conversion instructions

### WARNING

"This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit."

Transition applicable article: BT-4TS and BT-4TH

Transition packing list:

Orifices:  $\phi 0.74$  : 2 PCS

$\phi 0.94$  : 1 PCS

$\phi 0.44$  : 1 PCS

$\phi 1.12$  : 1 PCS

Transition label: 1 PCS

Transition date label: 1 PCS

This transition only for transform NG to LP GAS.

### Replace the gas source type step:

"Caution. The gas supply shall be shut off prior to disconnecting the electrical power, before proceeding with the conversion."

let the appliance cool to a safe temperature before removing the rack.

1. Turn off all battery and gas supply, remove rack and all of BURNER and BURNER HEAD;
2. Remove the stable screws on panel with the cross screwdriver and open the panel;

## OPERATION

### 1. Start the ignition operation

Press activation button at standby mode. Wait until all burner's power indicator light is flashing, touch relevant burner's power button, power indicator light become normally on, timing digital display shows "- -", ignition pin start to ignite, flame is lit. The gas stove will back to active state if there is no any flame when ignition pin ignite for 8 second. ( If we don't touch power button at active state, gas stove will back to standby mode.)

### 2. Flame adjusting

When flame is lit, touch "+" or "-" to adjust flame; touch "+" for one time, flame's lever will be increased for one lever, flame display area will light one more light. If long press "+", flame will be increased rapidly; press "-" for one time, flame will be decreased for one lever, flame display area will off one more lamb. If long press "-", flame will be decreased rapidly.

### 3. Timing

The timing range is between 1 and 120 minutes; The touch is timed to increase "+" or timed to reduce "-" to set the time (touch and hold increase bottom "+" or reduce bottom "-" can be quickly set), and the timing will start to work after the timer is set. When the countdown is over, the stove will automatically close the valve to cut off the gas source, the flame is extinguished, and it is restored to the activated state. After 8 seconds, the power will be turned off automatically in without other burner working situation.

If the timing is set, you can manually touch the power button to turn off the corresponding burner, or press the activation key to close all the burner.

### 4. linkage with hood. (If hood has linkage function)

Start the hood and gas stove, Push the linkage button of hood, wait until the linkage light is lighted and stop flashing, linkage relationship was built; Touch flame "+" or flame "-" to adjust flame, hood will adjust the level along with gas stove's flame automatically; switch off the stove, hood will adjust to minimum level automatically and switch off blower 1min later, and hood get into standby mode. (Note: In the process of linkage, the level of hood can be adjusted by manual; Re-adjust flame size of stove, and then hood will re-adjust the level along with stove's flame size.)



### Specification of unexpected flame out protection device

All of built-in stove which is manufactured by our company were installed this device. Push activation button and touch power button, gas was ignited, unexpected flame out protection device was opened at this time. In the process of cooking, this protection device will shut off gas valve automatically to cut off gas supply and prevent gas leakage when the food spill over and wind blow out and makes gas stove flame out.

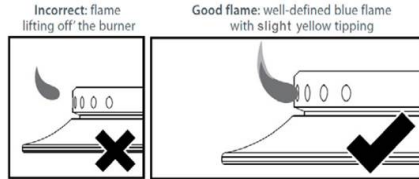
Warning: the gas stove can prevent the leakage accident which is caused by wind blow or soup come out from pot. But it can't prevent any other leakage which caused by other reason.

## REGULATING THE BURNERS

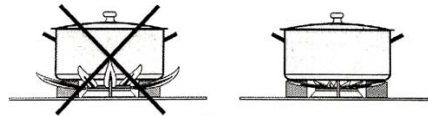
The burners can be variably adjusted between the lowest and highest flame by turning the control knob or operation panel.

Since the outer portion of the flame is much hotter than the center, the flame should be set so that its tips do not spread beyond the sides of the pan. Flame tips which extend beyond the sides of the pan are hazardous.

### Top Burner Height



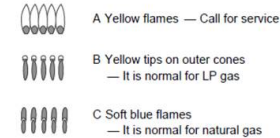
Incorrect and good flame patterns



Burner	Max. top diameter of cookware
REAR LEFT	7" (178mm)
REAR RIGHT	9" (229mm)
FRONT LEFT	12" (305mm)
FRONT RIGHT	7" (178mm)

### QUALITY OF FLAMES

The combustion quality of burner flames needs to be confirmed visually.



If burner flames look like A, call for service. B or C is normal burner flames, depending on the type of gas you use. With LP gas, some yellow tipping on outer cones is normal.



### WARNING

**NEVER use this appliance as a space heater to heat or warm the room. doing so may result in carbon monoxide poisoning.**

## DAILY INSPECTION AND MAINTENANCE

### Notice

- ★ Please turn off gas valve and keep oven in cold before inspection and maintenance
- ★ Inspect and maintain the following, never remove safety device or gas pipeline party by yourself

	the problem persists.		
	The flame goes out after being lit. The flames are not touching the ignition safety control.	The burner is assembled incorrectly. There is soiling on the ignition safety control.	Reassemble the burner. Clean the burners. See "Maintenance".
	Burning noise is particularly large	The burner is not properly installed	Reset the burner correctly
	Flame length inconsistent and yellow flame	Fire cover hole clogged	Please apply professional maintenance staff repair
	Flame in red during cooking	The humidity in the air is high or used Soy sauce and other condiments for cooking	Do not worry
	The kitchen has a gas smell	Gas hose aging crack, opening	Please apply professional maintenance personnel home repair
		Hose fittings and hose loosening	
The stove has a fault code and is turned off during cooking for BT-4TS	E01	Abnormal flame out	Please apply professional maintenance personnel home repair
	E03	Motor failure	
	E05	Thermocouple failure	
	E06	Ignition failure	Check the gas source is turn on or turn off, the gas source with or without gas; to exclude the reasons for the source or the fault code, please apply professional maintenance staff repair
	E10/E11	Solenoid valve failure	Please apply professional maintenance staff repair

## Gas stove installation

1. Remove gas stove and components from the shipping package and recycle packing materials.
2. Take the cardboard out, make the built-in hole refer the size of above picture.
3. put gas stove into built-in hole. Connect Gas supply connection and ELECTRICAL REQUIREMENTS

## Gas supply connection

All connections to the gas piping must be wrench-tightened. Do not over tighten or allow pipes to turn when tightening.

Leak testing of the appliance shall be conducted according to the manufacturer's instructions.

If a flexible metal connector is being used, verify it is not kinked, then attach the gas supply line to the regulator on the gas stove. Open the valve and check for leaks by placing a liquid detergent solution onto all gas connections. Bubbles around connections indicate a gas leak. If a leak appears, close the shut-off valve and adjust connections.

## TROUBLESHOOTING



Repairs should only be carried out by an authorized technician in accordance with local and national safety regulations. Unauthorized repairs could cause injury or appliance damage.

Important note: if the gas stove does not operate properly, follow these troubleshooting steps:

Verify electrical power is supplied to the gas stove.

Verify the gas supply shut-off valve is in the open position.

Shut off gas supply and contact professional Maintenance staff when the stove can't be used as normal.

If the error code was shown as below in the process of usage, please refer the error code to find out problem.:

## Identification and processing of common faults

Fault phenomenon		Fault reason	How to do
Without flame during turn on	The burner does not ignite when the cooktop is being used for the first time or after an extended period of not being used.	There could be air in the gas pipe	You may need to make several attempts before the burner ignites successfully.
	the burner does not ignite after several attempts. Disconnect the appliance from the electrical supply for a few seconds. If	The burner is assembled incorrectly. The gas valve is closed. The burner is wet and soiled. The flame slits are dry and unblocked.	Reassemble the burner. Open the gas valve. Clean the burners. See "Maintenance". Dry the igniters.

- ★ If you have any abnormal conditions, please contract our local after-sales service center immediately.

### • Inspection

- ★ The gas pipe connection should be reliable and without crack, it should be discontinued immediately and replaced in time if showing any leakage.
- ★ Combustible goods must not be piled up around the gas cooker.
- ★ The furnace head, fire cover and furnace rack must be rotated correctly.
- ★ The burner must not be blocked by overflow.
- ★ Ignition needle, thermocouple head cannot have food residue, foreign body or water etc.
- ★ The burning flame cannot be uneven.
- ★ Always check the interfaces with soap and water, and don't leak.

### • Maintenance

- ★ The material of the product panel is tempered explosion-proof glass and Food grade stainless steel.
- ★ Please remove the stove, cap and burner before cleaning.
  - Wash the stove panel and burner to clean with a neutral, non-corrosive cleaning agent. If dirty tempered glass oven surface should be cleaned in time with wet soft cloth with neutral detergent.
  - The active part of the burner, such as the lid of fire, should be cleaned with hot water and neutral cleaner, remove the sintered hard block and use the cloth after drying.
- ★ During the cooking process, the soup is spilled onto the panel. It is difficult to wipe out the stains on the panel because of the baking, we suggested to use boiling water pour on the top of the panel to soak the stain, wait for the stain to soften and gently scrub with a wet soft cloth to remove the stain.
- ★ Do not use granule cleaner (cleaning powder), sharp objects, steel velvet or knives to remove stubborn stains from the burner.
- ★ Do not use acid (lemonade, vinegar, etc.) to scrub the gas cooker.
- ★ Ensure the flame hold is carbon-free and not blocked.
- ★ After cleaning, must wait the water turned dry, then the installation.

## INSTALLATION REQUIREMENTS

A minimum 2"(51) is required from the bottom of the gas stove to combustible materials. If the gas stove is installed above an oven, a minimum of 1/4"(6) is required between units.

### Gas supply

The installation must conform with local or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 / NFPA 54 or, in Canada, the *Natural Gas and Propane Installation Code*, CSA B149.1.

Locate the gas supply as shown in the illustrations on the following pages.

The gas stove is equipped for use with natural or liquid propane (LP) gas. It is shipped from the factory

adjusted for use with natural gas. It is design certified by the Canadian Standards Association (CSA) for natural or LP gases. The product rating plate has information on the type of gas that should be used. For rating plate location, refer to the illustration below. If this information does not agree with the type of gas available, check with the local gas supplier. The gas pressure regulator is built into the unit.

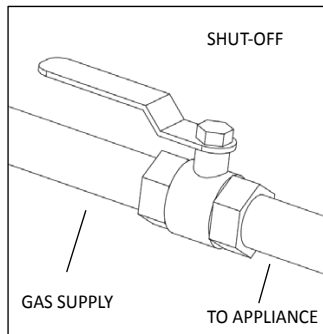
### Gas requirements

NATURAL GAS	WC
Supply pressure	5" (12.5 mb)
Min line pressure	7" (17.5 mb)
Max regulator pressure	14" (34.9 mb), 0.5 psi (3.5kPa)
Checking regulator pressure	6" (14.9 mb)
LP GAS	WC
Supply pressure	10" (25 mb)
Min line pressure	11" (27.4 mb)
Max regulator pressure	14" (34.9 mb), 0.5 psi (3.5kPa)
Checking regulator pressure	11" (27.4 mb)

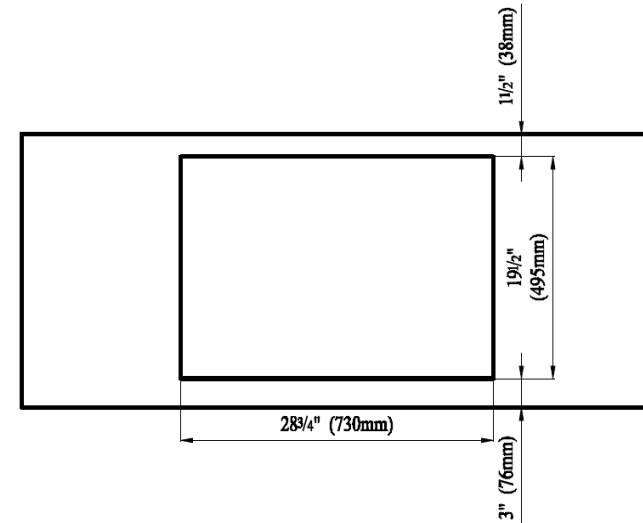
The gas stove must be connected to a regulated gas supply. The supply line must be equipped with an approved external gas shut-off valve located near the gas stove in an accessible location. Do not block access to the shut-off valve. Refer to the illustration below.

A gas supply line of 3/4" (19) rigid pipe must be provided to the gas stove. If local codes permit, a certified, 3' (0.9m) long, 1/2" (13) or 3/4" (19) ID flexible metal appliance connector is recommended to connect the units 1/2" NPT male inlet to the gas supply line. Pipe joint compounds, suitable for use with natural or LP gas should be used.

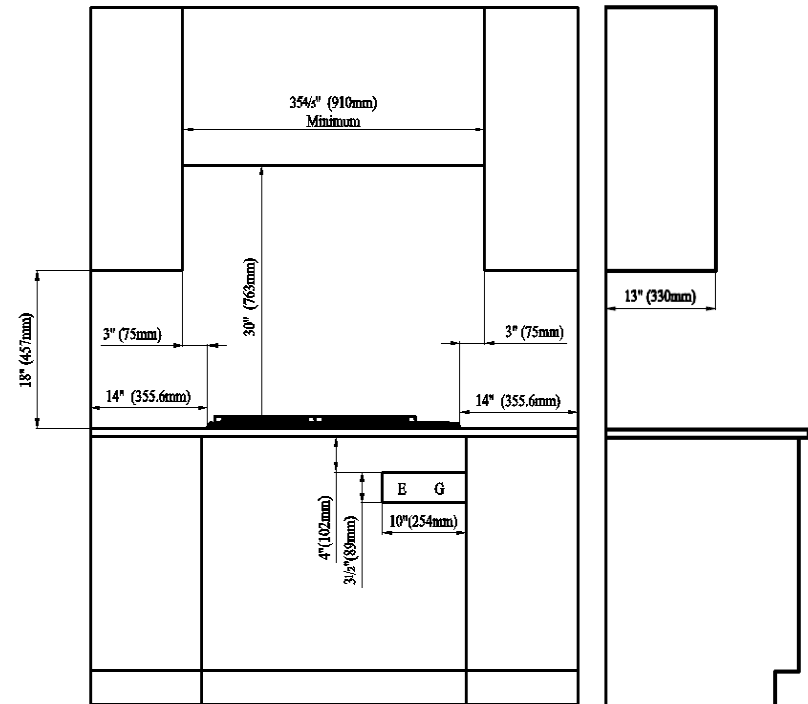
The appliance and its shut-off valve must be disconnected from the gas supply piping system during any pressure from the gas supply piping system during any pressure testing of the system at test pressures in excess of 0.5 psi (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the system at test pressures equal to or less than 0.5 psi (3.5 kPa).



### Standard installation



COUNTERTOP CUT-OUT



FRONT VIEW

SIDE VIEW