

# **Gas Stove**

## **Operating Manual**

**Dear Client & User,**

Thank you for choosing our products. All the information and instructions in this manual take into account standard safety regulations, current levels of technical engineering as well as the expertise and experience we have developed over the years.

If the delivery consists of a special model, the actual scope of delivery may differ from the descriptions and illustrations in this manual. This is also the case for special orders or when the device has been modified in line with new technology. Should you have any questions, please contact the manufacturer.

For safety purpose and efficient operation, please read the manual carefully before any operation to the appliance, especially when starting up the device. Install the machine in accordance with this manual and the local related rules.

**Note: Read the instruction manual carefully before using the device. The manufacturer does not accept liability for any damage or malfunction resulting from not following the instructions for use.**

The instruction manual should be kept near the device, easily accessible for anyone wishing to work with or using it. We reserve the right to make technical changes for purposes of developing and improving the useful properties.



## 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 personnel.
- ◆ For your safety sake, please keep the machine away from any flammable or explosive liquid, gas and other object.
- ◆ The device is not intended for use by individuals (including children) with physical or mental disabilities, insufficient experience, and/or insufficient knowledge unless such persons are under the supervision of a person responsible for their safety or have received instructions regarding appropriate use of the 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.
- ◆ If this 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.
- ◆ The appliance should be located in a well ventilated place with air exhaust facilities to ensure that the steam and burned gases can be discharged during operation.
- ◆ Dry heating is prohibited. Device break down caused by operations against rules will void the liability of the manufacturer within the warranty.
- ◆ The device is only applicable to low pressure gas regulation valve, otherwise it may cause property damages or personal injuries.
- ◆ Fire warning: should any gas smell come to your nose, prohibit any possible ignition of fire source. Do not light devices or turn on electronic switches. Do not use any phone in the building. Once you notice the gas smell, shut down the main gas supply valve completely and call in the maintenance department from an authorized center. Improper maintenance of the valve or maintain the valve by force will cause the risk of large amount of gas leakage or gas deflagration accident. The fire caused by improper operation or maintenance will void the warranty of the manufacturer.

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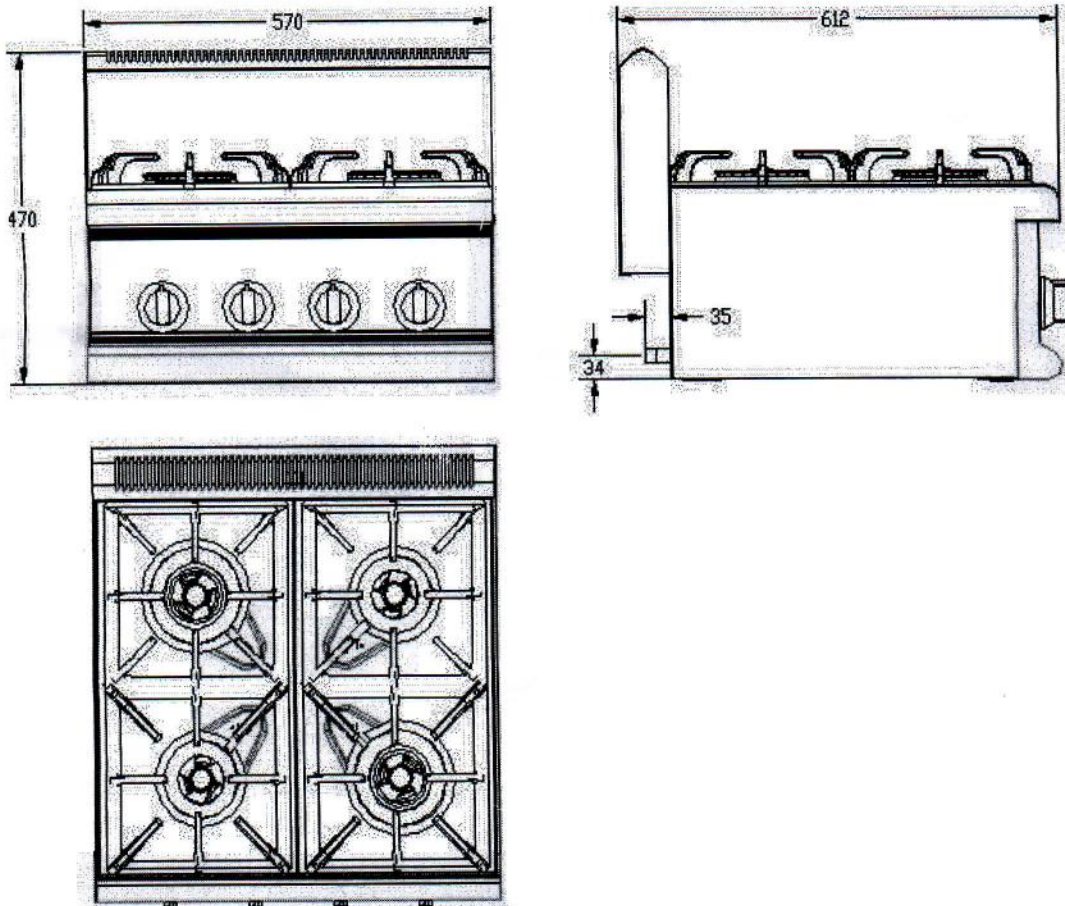
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## 1. Functional Introduction

These products of gas combination furnaces are designed under our research & development while absorbing the advantages of similar products at home and abroad, all of which include counter top gas fryer, gas stove, and gas lava rock grill. This product of GBS adopts the stainless steel outer frame design and is integrated with all the merits of attractive appearance, cast iron plate burners (the gas stoves use the luxury disc type burners), energy-efficient, sturdy and durable and separate piezoelectric ignition device, as well as the gas valve with safe flame failure device to ensure the safety of the users. All of these features make them the ideal and necessary equipment for hotels, supermarkets, western restaurants, fast food restaurants and the like.

## 2. Structure Diagram & Working Principle

### Structure Diagram:



## 2.2 Structural Performance Features

1. The device adopts the space-saving counter top design.
2. Equipped with 4 or 6 luxury high efficiency disc type burners, users can select firepower as they wish. The firepower can be regulated by one valve and the gas valve comes with safe flame failure device to ensure the users' safety.
3. The device grate is made of cast iron, and the luxury disc type burners are detachable from the furnace, which makes it easy to clean the scraps under the burners.

## 3. Basic Features & Parameters

Model	Size (mm)	Thermal power (kW)	Gas valve	Control switch No.	Burners No.
GBS-2Y	660X490X360	2x5	Low pressure regulation valve	2	2
GBS-3Y	990X490X360	3x5	Low pressure regulation valve	3	3
GB-2Y	375X800X360	2x5	Low pressure regulation valve	2	2
GB-4Y	765X800X360	4x5	Low pressure regulation valve	4	4
GBS-1YC	380X460X215	5	Low pressure regulation valve	1	1
GBS-2YC	760X460X215	2x5	Low pressure regulation valve	2	2

## **4. Precautions & Recommendations**

### **4.1 Transportation and Storage:**

During transportation, please handle the appliance carefully and no upside down to prevent the damage of the enclosure and inner parts. The packaged device should be stored in a well-ventilated warehouse of no corrosive gas. Should any temporarily storage needed, please take measurement against raining.

### **4.2 Notices for Installment:**

#### **Gas Installation:**

1. Before installation, turn off all the gas valves.
2. The device is intended for PLG. Please connect to the device reliably.
3. Do not employ high or medium gas valve to this device.

#### **Installation Notices:**

1. Make sure that the sides are away from non-combustible material (eg. Brick walls or windows) no less than 10 cm, and the rear at least 20 cm. Install the device shall be mounted in a well-ventilated environment. Do not pile sundries in front of the switches for convenient operation.
2. Do not store any inflammable or explosive substances near the device. The ambient temperature shall be lower than 45°C and the relative humidity shall be lower than 85%.
3. All the installation of this device should be done by professional and qualified personnel.

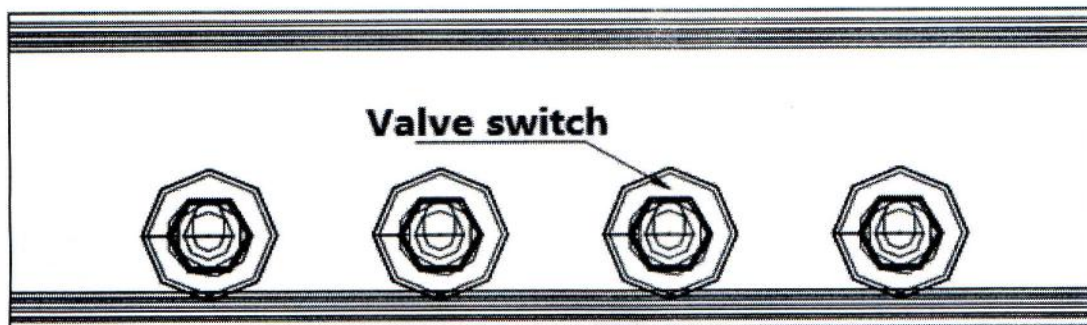
### **4.3 Special note**

1. When use this device for the first time, the ignition time may be a little longer due to the air in the newly installed conduit. If it doesn't ignite at the first time, turn off the ignition switch and re-ignite it after 3 minutes' interval to avoid deflagration.
2. When stop using or when the operator is not attended, the device must be turned off to prevent against danger.
3. Use neither gases which are not applicable for this device nor any high or middle pressure regulation valves. The supplied gas must be in accordance with the device applicable gas, if not, do not use it.

4. This is a commercial machine which is not applicable for home use. All the operation shall be done by trained & professional personnel.
5. No shaking or tilting during using.
6. Do not dismantle or modify the device, serious accidents may happen when dismantling or modifying.
7. Do not put the device or place heavy objects onto the device. Do not store any substances at the smoke vent of the gas heater to prevent obstruction of the discharge of fumes that can cause hazardous to personal health.
8. Abnormal operation may cause damage and danger.
9. High temperature may cause scald.
10. Do not touch the appliance directly with hand due to high temperature during or after the operation.
11. Do not destroy the control panel with hard or sharp objects.
12. All the users must abide by the gas operation regulations strictly, and ensure that the gas source is connected to the device reliably without leakage at the connecting point and all the valves are closed off.
13. All operations shall be performed when it's secured. If any break down happens, call for service immediately.
14. Before using, the device shall be installed and regulated correctly. Only use it after inspection and its accuracy is ensured.
15. The service of the gas circuit and installation of the device shall be carried out by professional technician. If there's gas leakage, turn off the gas valve immediately and maintain its ventilation. Do not turn on or off any power or do any ignition. Maintain it when the inflammable gas is dispersed.

## 5. Using Instructions

### 5.1 Control Panel Diagram:



### 5.2 Operation:

1. Check whether the furnace top is clean. If yes, place pots on the grate.

2. Connected the device to LPG source, press the gas valve knob in the front of the furnace and turn it to a certain angle, while using another hand to light up the ignition gun and point it at the pilot beside the grate to ignite the pilot flame.
3. When the pilot flame is on, continuous to press down the gas valve knob for another 15s and then release it, during which time the gas valve heats the fire sensor through the pilot and the safety device is on. The main burners can be ignited by rotating the gas valve knob anticlockwise.
4. When the pilot flame is on, rotate the gas valve knob anticlockwise, the firepower can be regulated to maximum. If rotate it anticlockwise continuously to the extreme position, the firepower will get smaller and smaller from maximum. To turn off the gas valve, rotate the knob clockwise to the end, the gas valve will be off while you hear a tick sound.

## **6. Routine Check**

It is necessary to check the machine daily.

Check the machine regularly can avoid serious accident happens.

Stop using if user feels that there are some problems in the circuit or machine.

Check the appliance every time before and after using:

Before using: Whether the machine is tilted?

Whether the control panel is damaged?

During using: Whether there is strange smell or odour?

Whether there's vibration noise?

Whether the burner flame is normal? Is there tempering or flame lift?

## **7. Cleaning & Maintenance**

1. When cleaning and maintaining, turn off all the switches to avoid accidents.
2. Every day after working, take away the pots in time and clean them with clean water.
3. Wipe the furnace body and grate then. Do not flush the furnace body directly with water to prevent against damages to its performances.
4. After cleaning, put all the accessories in place and cover the furnace with dustproof paper.
5. Anytime when stop using, disconnect it from gas source.
6. If the device is out of use for a long time, it is advisable to clean the stove completely and then store it in a well ventilated warehouse without corrosive gas.

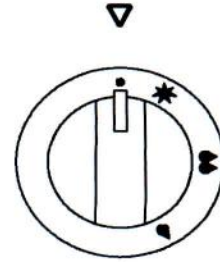
## 8. Failure Analysis & Trouble Shooting

Symptoms	Causes	Solutions
The pilot burner cannot be lighted up	<ol style="list-style-type: none"> <li>1. The pressure of the gas conduit is too low</li> <li>2. The pilot nozzle is blocked</li> <li>3. The connection of the thermocouple is loose</li> <li>4. The thermocouple breaks down</li> <li>5. The gas valve is malfunctioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Regulate the pressure relief valve</li> <li>2. Dredge the nozzle of the pilot</li> <li>3. Screw the thermocouple tight</li> <li>4. Replace the thermocouple</li> <li>5. replace the gas pilot control valve</li> </ol>
The pilot is on but the main burners cannot be ignited	<ol style="list-style-type: none"> <li>1. The pressure of the gas conduit is too low</li> <li>2. The main burner nozzle is blocked</li> <li>3. The gas valve is malfunctioning</li> </ol>	<ol style="list-style-type: none"> <li>1. Regulate the gas relief valve</li> <li>2. Dredge the main burner nozzle</li> <li>3. Replace gas control valve</li> </ol>
There's tempering sound when cut off the gas source	<ol style="list-style-type: none"> <li>1. The nozzle orifice diameter does not match with the gas source</li> <li>2. The damper is oversized</li> <li>3. The gas source pressure is on the low side</li> <li>4. The inflow of the connecting pipe is too low</li> </ol>	<ol style="list-style-type: none"> <li>1. Regulate the nozzle diameter</li> <li>2. Regulate the damper</li> <li>3. Regulate the gas relief valve or communicate with gas supply department</li> <li>4. Increase the allowable inflow volume</li> </ol>
There's red flame and black smoke	<ol style="list-style-type: none"> <li>1. The nozzle diameter does not match with the gas source</li> <li>2. The primary air is not enough</li> <li>3. The gas in the gas bottle is almost used up</li> <li>4. The gas composition fluctuation is huge during gas peak</li> </ol>	<ol style="list-style-type: none"> <li>1. Regulate the nozzle diameter</li> <li>2. Turn the damper up</li> <li>3. Change the gas source</li> <li>4. Regulate the inflow volume to a relative smaller position, and adjust it back to normal when the gas peak is over.</li> </ol>

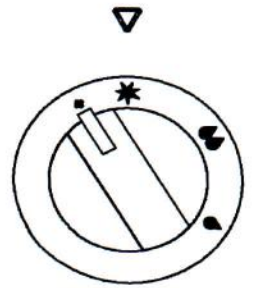
**Aforementioned troubles are just for reference. If any failure occurs, please stop using, and inform the professional technicians to check and repair. Safety first! Please cut off the electric and gas source before maintenance.**



# Gas Safety Valves' Manual

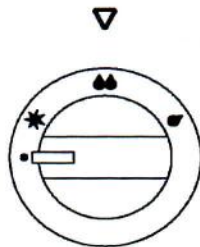
1. ● showing in picture is “0” sign, means “off” state



2. Ignition: turn to “★” position counterclockwise, press the knob (it takes about two minutes to push out air for first time using), and then press the ignition pulse, light the pilot after holding the knob more than 15 seconds, let the thermocouple become hot, if pilot fire is off when you release the knob, repeat this operation.



3. High fire control: turn the control knob to the fire   position.



4. Low fire control: turn the control knob to the fire  position.

