# Gas Radiant Countertop Char Broilers Operating Instructions (Flame out protection) (Electronic ignition)

Before you begin, please read these instructions carefully to use this product correctly, to make the product perform ideally, and to avoid hazards.

# Models : ATRC-24P / ATRC-36P / ATRC-48P

Dear customers and users:

Thank you for purchasing our products. In order to be able to better use this product, please read these instructions carefully before any operation, and follow the guide, to avoid any unnecessary trouble during using.

Please keep this instruction manual in a safe place for convenient reference and operation.

This instruction manual is subject to any change without further notice, and the manufacturer reserves the right of final interpretation.

The appliance is designed for commercial purposes, not for household use.

This appliance is only for professional use and that it shall be used by qualified people

A statement instructing the purchaser to post in a prominent location instructions to be followed in the event the user smells gas. This information shall be obtained by consulting the local gas supplier

## 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.

## Gas Radiant Countertop Char Broilers

Installation, Operation and Maintenance Guide

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## 1. Safety Protection

 $\triangle$  Please make sure that the operator is an authorized and licensed technician before you allow him/her to install and operate the products. Be sure to strictly follow this instruction guide during installation and using. The manufacturer is not responsible for any dangers or accidents caused by improper operation or maintenance.

 $\triangle$  Do not store flammable or explosive objects around the product. Keep all flammable and explosive objects at a safe distance away from the product for normal use.

 $\triangle$  Place the product in a reasonable position. Regarding related matters of gas, customer should execute the requirements of local gas supply sector;  $\triangle$  If you smell a gas leak, turn off the gas valves immediately and call the gas company;

 $\triangle$  The product should not be operated by those under 18 years of age, or those with physical or mental disorders, or disabilities that lack the necessary knowledge or experience unless with appropriate instructions and sufficient safety.

## 2. Brief Introduction

The product is a series of gas char broilers in our company production, which is novel designed, reasonable structured, convenient operated, durable used, and convenient maintained. It's equipped with a high efficiency stainless steel tubular burner and a pilot light, combining flame out protection device and Piezo Igniter, and convenient to ignite the main fire burner. This is hotel, supermarket, western restaurant, noshery and food industry's ideal barbecue product equipment.

## 3. Manufacturer's Authority and Responsibility

Banning of all or partial transformation to the products without the manufacturer's explicit authorization.

The Manufacturer refuses to undertake responsibility to third parties for the following reasons:

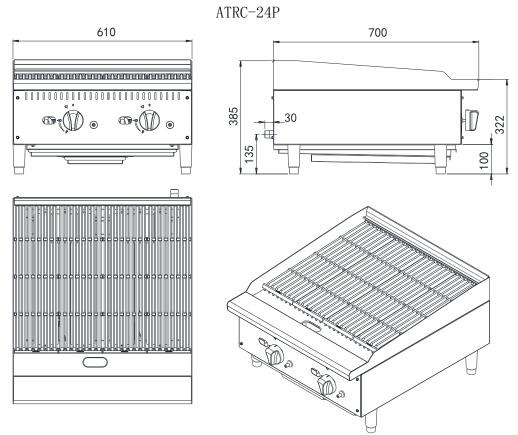
 $\triangle$  Not follow the instruction guide and take caution in using and testing;  $\triangle$  Not comply with the requirements of technical parameters using this product;

 $\triangle$  Incorrectly or irrationally using the product by untrained personnel;

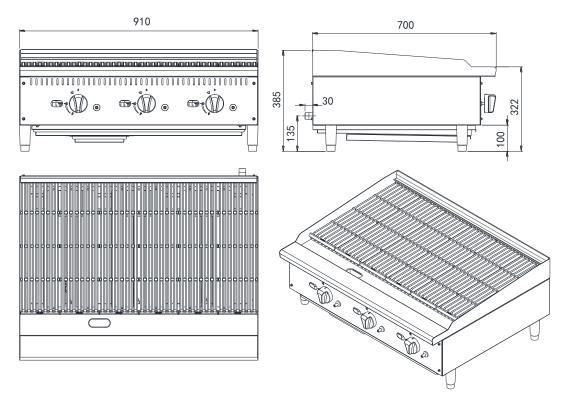
- $\triangle$  Not obey the local law using this product;
- $\triangle$  Be repaired or changed by unauthorized technicians;
- ${\mathbb A}$  Use the spare parts or accessories provided by non-manufacturer;
- $\triangle$  Accidents caused by force majeure;
- $\triangle$  Not strictly comply with related guide of instruction by any reason.

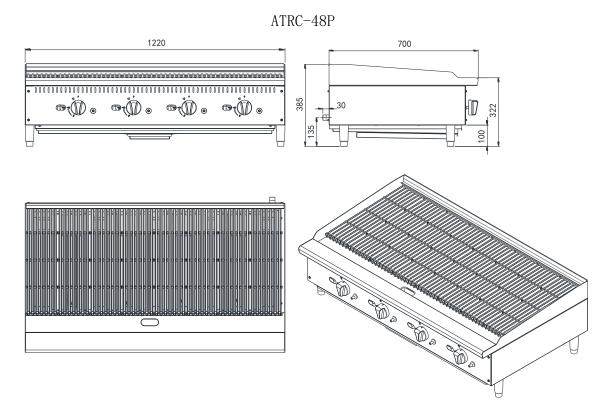
## 4. Parameter Specifications

### 4.1, Outline Dimensions(mm)



ATRC-36P





4.2, Gas Supply and Burner Information The external thread of product's intake-tube is 3/4 inches.

<Table 1>

	(Tubic	- /		
Item name	Grill			
Country of destination	Category	Gas	Supply Pressure (mbar)	Manifold pressure (mbar)
BE, CH, CY, CZ, ES, FR, GB, GR, IE, IT, LT, LU, LV, PT, SK, SI.	I <sub>3+(28-30/37)</sub>	G30/G31	28-30 /37	25
BE, CY, DK, EE, FI, FR, HU, IT, LT, NL, NO, SE, SI, SK, RO, HR, TR, BG, IS, LU, MT	I <sub>3B/P(30)</sub>	G30	30	25
PL	I <sub>3B/P(37)</sub>	G30	37	25
AT, CH, DE, SK	I <sub>3B/P(50)</sub>	G30	50	25
AT, BG, CZ, DK, EE, FI, GR, HR, HU, IS, IE, IT, LV, LT, NO, PT, RO, SK, SI, ES, SE, CH, TR, GB	I <sub>2H</sub>	G20	20	10
DE, LU, PL, RO	I <sub>2E</sub>	G20	20	10
BE, FR	$I_{2E^+}$	G20	20	10

Model	#of burners and control method	Gas Species	Nominal Rate	Reduce rate	Ignition rate	Total Rate	Nozzle (mm)
ATRC-24	2 pieces	Natural Gas	7.5kW (0.79m³/h)	3.0kW (0.32 m <sup>3</sup> /h)		15 k₩ (1.58m³/h)	2.40
P	Independent	Gas					
Ľ	control	L.P. Gas	7.5kW (591g/h)	3.0kW (237g/h)		15 kW (1183g/h)	1.45
ATRC-36	RC-36 3 pieces	Natural Gas	7.5kW (0.79m³/h)	3.0kW (0.32 m³/h)	0.051.W	22. 5kW (2. 37m³/h)	2.40
Р	Independent control	L.P. Gas	7.5k₩ (591g/h)	3.0k₩ (237g/h)	0.25kW	22.5kW (1774/h)	1.45
ATRC-48	4 pieces	Natural Gas	7.5kW (0.79m³/h)	3.0kW (0.32 m <sup>3</sup> /h)		30k₩ (3.16m³/h)	2.40
Р	Independent control	L.P. Gas	7.5kW (591g/h)	3.0k₩ (237g/h)		30k₩ (2365g/h)	1.45

 $\langle Table 2 \rangle$ 

## 5. Transport and Storage

In the process of transportation, handle carefully and keep upright to prevent damage to the product packing. Wrapped equipment should not be long-term open storage, and shall be placed in a well-ventilated and non-corrosive gases warehouse. When equipment needs temporary storage, rainproof measures should be taken.

## 6. Installation and Debugging

 $\triangle$  Any erroneous installation, adjustment, refit, overhaul or maintenance may cause property damage or personal injury. All this work shall be completed by authorized and licensed technicians, otherwise the manufacturer has the right not to provide warranty service;

 $\triangle$  Only be installed in accordance with the local gas, electricity and other relevant codes.

 $\triangle$  A qualified installer should be called in to install the appliance. The appliances are to be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of substances harmful to health in the room in which they are installed.

 $\triangle$  The gas supply tubing or hose shall comply with the national requirements in force and shall be periodically examined and replaced as necessary.

6.1, Unpacking and Installation

 $\triangle$  Please dispose of all packaging materials and residues after unpacking;

 $\triangle$  Check the equipment. If it is damaged, please keep wrappers and receipts, which must be signed by the carrier representative (Driver), and contact the carriers to pursue a claim within 15 days after receiving;

 $\triangle$  Be sure to install supporting legs before using, and do not tear up any label or logo before the normal using;

 $\triangle$  Please read these instructions carefully before installation and operation. Please contact your local agent if you have any questions;  $\triangle$  The charbroiled shall be installed on a level, solid, non-skid and incombustible surface, and placed in a well-lighted work area with waterproof, and away from children and customers;

 $\triangle$  The installation position is a well-ventilated place in accordance with the local regulations;

 $\triangle$  The charbroiled must be installed under the matched cooking fume exhauster according to the local regulations;

 $\triangle$  Important: Installation and ventilation laws, and codes are very different, you should state and comply with all codes of the local competent departments when it comes to requirements for installation of equipment;  $\triangle$  Screw 4 adjustable stainless steel legs in the tapping hole with four corners of the char broiler bottom, ensure sufficient space for ventilation;  $\triangle$  Adjustable stainless steel legs to make the equipment level, and get the same level with other series of the same stove; Please lift the equipment rather than drag if you need to move it;

 $\triangle$  Remove the grate (Fig. 9-27), and take out the support under it, and reinstall grate after you make sure the thermal radiation plate (Fig. 9-29&30) is unmoved, and dispose the support;

 $\triangle$  Supplied gas pressure regulator is factory set at 1kPa for Natural Gas and 2.5kPa for L.P. Gas;

 $\triangle$  The equipment can only be placed on the incombustible counter top, and keep a distance at least 350mm to equipment's both sides and back, and keep a distance at least 100mm to the bottom.";

 $\triangle$  Do not put anything around the equipment, and on the counter top and bottom, in order to avoid influencing combustion and air circulation;

 $\triangle$  Leave enough distance in front of the equipment to take apart the control panel. All major parts, in addition to the burner remove from the front intake-tube;

 $\triangle$  It may be necessary to adjust the balance of air input by authorized and licensed technicians;

 $\triangle$  Pipe threading compound must be resistant to the action of liquefied petroleum gases.

▲ Warning! Use soap water or testing instrument to test whether piping joint leaks before use, and forbidden to use an open flame to test!
▲ After installing, you should check gas supply pressure. Use a pressure gauge which is equipped with liquid (such as U-type pressure gauge, the minimum value is 0.1mbar) or a digital pressure gauge to test. Steps as following:

ullet Remove counter top plate, and needle type pressure joint screw arbor

- (Fig. 1), then slip rubber tube of pressure gauge over needle type pressure joint;
- Start the equipment in accordance with the instructions, measuring gas supply pressure (dynamic pressure) in the work state;
- •Access to the equipment if measured data within the limits of table 1, otherwise, you will need to adjust gas pressure regulating valve or contact gas supplier to bargain;
- •Unplug pressure gauge after you accomplish pressure testing, then install needle type pressure joint screw arbor. Important: must screw joint screw arbor to prevent gas escape!

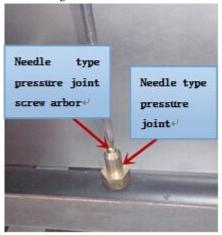


Fig.1

#### 6.2、Debugging

It's very important to debug the new stove. Through the comprehensive system test of equipment, we can ensure product's function and safety performance. Discovering any potential problems before use (such as equipment's placement, ventilation, operation, etc), can avoid costly losses.

## 7. Safety Notices and Precautions

 $\triangle$  Warning! For your safety, do not place petrol and other flammables nearby. Please keep clean and free of flammables surroundings.

 $\triangle$  Warning! Any erroneous installation, adjustment and refit may cause property damage or personal injury and maintenance failure. Read the instructions carefully before installation and using.

▲ Warning! Operation instruction must be placed in a conspicuous location. When customers smell gas in the process of using, should take safety precautions immediately. Immediately turn off the main gas valve, extinguish all heat and flames. Safety information can be obtained from your local gas suppliers.

 $\bigtriangleup$  do not spray aerosols in the vicinity of this appliance while it is in operation.

When using this equipment, safety precautions should always

## be followed, including the following:

 $\triangle$  The char broilers burners, grates and outside surfaces may become hot after using, so you must be careful to touch;

 $\triangle$  During operation, do not directly touch burners and grates;

 $\triangle$  Turn off the equipment as not in using, cleaning, servicing or adjusting any parts or attachments.

 $\triangle$  If the equipment has any problems of equipment damage, gas piping leaks, igniter or valves damage, or lose product accessories, do not operate by yourself and call customer service immediately;

 $\bigtriangleup$  The use of attachments not recommended or sold by the manufacturer may cause fire, personal injury, even death;

⚠ Do not use out of doors;

 $\triangle$  The equipment is used for barbecue, not available for any other use;  $\triangle$  The equipment does not contain any user-serviceable parts. Dealers or technicians will repair it. Do not take apart any spare parts without authorization;

 $\triangle$  Never change any other parts without authorization to this equipment, otherwise, may cause hazards, and the manufacturer has the right not to provide warranty service;

 $\triangle$  Steel cutting producers used to manufacture with sharp edges. The manufacturer has dealt with these sharp edges during production, however, we insist the operator take care when in contact with this piece of equipment;

 $\triangle$  Always keep hands, hair and clothing away from heating source.

 $\triangle$  Waiting until the unit cools down before you clean. Because the unit is too hot to handle after using.

 $\triangle$  The parts protected by the manufacturer or his agent shall not be adjusted by the installer.

## 8. Operating Instructions

 $\triangle$  Before operating, make sure place the unit horizontally by adjusting bottom adjustable legs, and place the catch tray properly.

 ${
m 
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m A}$  To ensure that the air flow in the bottom of the equipment.

 $\triangle$  Do not use a fan or air conditioning to the flame, so as to avoid the flame extinguished and a safety accident.

 $\triangle$  Must be installed the matched exhaust hood according to the local regulations above the equipment.

 ${ig \Delta}$  To ensure that the air in the kitchen is kept in circulation.

⚠ The pilot light has been set at the factory. Each burner has a pilot light.

8.1, Lighting the fire

(1) Align the control valve knob on the "O" position (Fig. 2), so that the valve is closed.

2 And then axial press the front air valve knob, left 30 degrees, to the

fire position \* (Fig. 3).

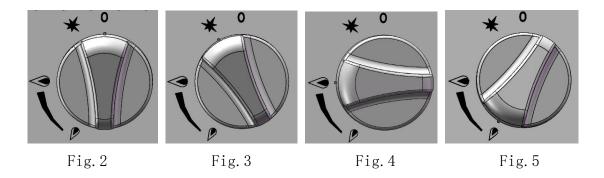
③At the fire position, completely press the knob, meanwhile press the bottom

of Piezo Igniter, there is electric spark between pilot and fire needle. If the fire is not lit, please repeat this action until the fire is ignited, and observe stability of fire.

Tip: There is air in the pipeline when the first time light the fire, then can normally light the pilot light until flow out air.

#### 8.2. Lighting the main burner

Revolve the main fire control valve knob anticlockwise after lighting the pilot light, and then the main fire burner is ignited by the pilot light. When knob reaches to "  $\land$  " (90 degrees), burner is in the maximum power (Fig. 4). Once again axial press the knob and revolve it anticlockwise, the power of burner reduces gradually with the rotation angle increases. When knob is rotated 150 degrees to "  $\land$  ", burner is working with a minimum power (Fig. 5).



<sup>8.3,</sup> Turn off the valve

(1)When the control knob is rotated to the fire position  $\bigstar$  (Fig. 3), the main

fire burner flame is extinguished, but the pilot light will continue to work. ②Axial press the knob to rotate knob clockwise continually, so that the direction of the knob on the "O" position, at this time, the fire extinguished, the valve closed.

#### 8.4. Stove Operation

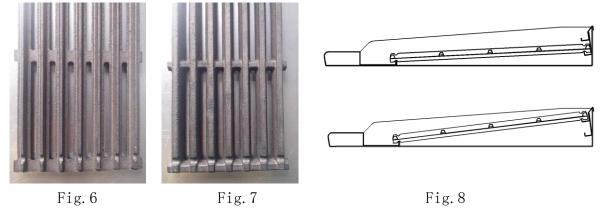
Before using the stove for the first time, please use a mild detergent to wipe it clean. Do not use corrosive or abrasives detergent.

Turn the burners on about 15-20 minutes before broiling for preheating, according to the cooking requirement to adjust the flame size.

Notice: When first preheating, the furnace will smoke rise. This is because of protective lipids on the grates and other parts are heated, it is normal, and it will be eliminated after the power up to the maximum for burning an hour.

One side of grate with grease trough (Fig. 6), and on the other side of grate is flat (Fig. 7), users can choose a side according to demand, users

also can adjust grate's gradient according to demand (Fig. 8). The side of grate with grease trough up if roasting food with more oil, and oil will drop into grease trough, then flow to catch tray.



8.5, Exchange main fire nozzle to switch gas source

Remove the control panel, coutertop, fire seat, and bottom tightening screw of the end of burner (arc), take out burner, then remove main fire nozzle with proper open spanner, exchange nozzle of another gas source, then screw it. Reinstall burner, fire seat, grill and the control panel in proper place.  $\triangle$  Caution: Each main fire nozzle of the burner has been installed before delivery, normal use without adjustment but only switching gas. Adjust only by authorized and licensed technicians. When you change the gas source, you need exchange the corresponding pressure maintaining valve and fire seat which installed on air intake.

#### 8.6. Adjust air input

Remove the control panel, coutertop, fire seat, and bottom tightening screw of the end of burner (arc), take out burner, adjust an appropriate opening degree according to the need, then tighten the damper fastening screws, to ensure the equipment will not get loose in the process of moving and translation. Reinstall control panel.

Caution: Each burner damper has been adjusted before delivery (once air input), normal use without adjustment but only switching gas. Adjust only by authorized and licensed technicians.

#### 9. Cleaning and Maintenance

 $\triangle$  Do not use any abrasive or flammable detergent to wipe;

 $\triangle$  Do not hose down, immerse or pressure wash any part of the char broiler, excluding the catch tray;

 $\triangle$  Do not use abrasive cleaning matters to wash, even not use corrosive detergent!

A Warning: Before cleaning, all control valves must be turned off. Strictly follow the lighting instructions to work again after cleaning!

 $\triangle$  Warning: Wait for the equipment cool down before your cleaning!

 $\triangle$  Cut off the gas source as not in using;

▲ If the equipment is not used for a long time, clean the surface by wiping it with a soft aloth and place it in a well-ventilated area.

it with a soft cloth and place it in a well-ventilated area;

 $\triangle$  Comprehensively check the equipment at least once every year by authorized and licensed technicians;

 $\triangle$  The product is made of 90% metals, and can not be disposed anywhere. Deal with it in accordance with the local codes.

 ${\ensuremath{\triangle}}$  Instructions to clean appliance regularly with recommended cleaning agents, if necessary.

 $\triangle$  Checking and suitable cleaning of the inside of the barbecue or grill before it is lit in order to avoid the emission of fire from the oils that have accumulated during previous cooking.

Recommended cleaning methods

Item	Item Method	
Body	Wipe it with a soft cloth and mild detergent	daily
Control panel	Turn off the valves when not in use; Wipe panel and control valve knob with mild detergent.	daily
Grates & Radiants	<pre>Caution: Wear insulated gloves when handling grates or radiant, in order to prevent possible burns! 1. Take out grates and radiant; 2. Clean up grease and other impurity on grates with a wire brush; 3. Clean grid slot with a scraper; 4. Grates coated with food grade lubricants. Reinstall radiant and grate in proper order, open char broiler to evaporate for 45 minutes, and then close it. Warning: Do not cover grates in the process of evaporation!</pre>	daily/as need

<Table 3>

Char Grate Back Support Brace	Remove grate until the equipment cools down. Take off char grate back support brace, clean grease and other crumbs. Then daub lubricants. Reinstall after cleaning.	daily/as need
Catch tray	Pull out catch tray from front body until the equipment cools down. Clean grease and other crumbs. Reinstall after cleaning and daubing lubricants. Warning: if the catch tray is permitted to fill too high, should be cleaned!	Per use

# 10. Troubleshooting

# <Table 4>

Problems	Possible causes	Problem solving
	1. Insufficient gas pressure in pipe	1.Contact the local gas supply dept.
	2. Nozzle occlusion	2.Dredge nozzle
	3. Thermocouple connection	3. Tighten the
Not lighting	loose	thermocouple
	1 Thermoscuple demore	4.Replace
	4. Thermocouple damage	thermocouple
	5.Gas control valve failure	5.Replace gas control valve
	1. Insufficient gas pressure	1.Contact the local
Ignite the	in pipe	gas supply dept.
pilot light but not the	2. The main fire nozzle occlusion	2.Dredge nozzle
main fire	3.Gas control valve failure	3.Replace gas control valves

	1. Insufficient gas pressure	1.Contact the local
	in pipe	gas supply dept.
Close ges and	2. Not match nozzle aperture with	2.Adjust nozzle
Close gas and heard a sound	gas resources	diameter
of fire	3. Flow of connection pipe is	3.Increase pipe's
01 1110	not enough	allowable flow
	4.Damper opening degree is	1 Adjust domest
	too large	4.Adjust damper
	1.Use the gas of bottom	1.Replace gas
	2. Not match nozzle diameter with	2.Adjust nozzle
Yellow flame	gas resources	diameter
and black	2 Nat anothe airs to invite	3. Increase damper
smoke	3.Not enough air to ignite	opening degree
SIIIOKE	4. In the peak of using gas, sources of gas float heavy	4.Turn down valves
		flow. Turn it up
		after the peak

The problems mentioned above are only for reference. If any fault occurs, please stop using, and contact technicians to check and repair. Safety first, turn off the power and gas supply before maintenance.

Notice:

1. Pressure maintaining valve connects with air intake, must be installed by authorized and licensed technicians, to assure interface tightness.

2. When the regulator is connected, the maximum load value of natural gas can not exceed 1.13kPa, the maximum value of liquefied gas can not exceed 2.75kPa.

3. Screw the hex nut (Fig. 10) before connect air intake, ensure gas mark (Fig. 11) on the plastic core match with connected gas source, if not, then pull out the plastic core and change another head, insert it again. The same as exchanging gas source.

4. When exchange gas source, unscrew the hex nut (at the bottom of fire seat) first (Fig. 12), then adjust adjusting screw rod(Fig. 13) with a screwdriver to meet the normal requirements of pilot light flame.

NOTICE: Each fire seat has been adjusted before delivery, normal use without adjustment and exchange. Only replace it when converse gas source, and operate by qualified professionals.

5. The A18 orifice in the accessories used in the replacement of the gas resource. Follow rules of 8.5.



Fig. 10



Fig. 11



Fig. 12



Fig.13



PIN Number: 0359CQ00667 BSEN 203-1:2014 / EN 2003-2-4:2005 Gas catering equipment (Type A)

Our products have the advantages of good durability and low maintenance charge. But to update some components and necessary maintenance, can prolong life length of the products. Contact the dealer for assistance.