





## Table of Contents

Specifications-----	Page 3
Installation-----	Page 5
Operation-----	Page 9
Seasoning-----	Page 10
Cleaning-----	Page 10
Service/Trouble Shooting-----	Page 12
Parts-----	Page 13
Warranty-----	Page 14

Read these instructions carefully before attempting installation. Installation and initial startup should be performed by a qualified installer. Unless the installation instructions for this product are followed by a qualified service technician (a person experienced in and knowledgeable with the installation of commercial gas and/or electric cooking equipment) then the terms and conditions on the Manufacturer's Limited Warranty will be rendered void and no warranty of any kind shall apply.

## SPECIFICATIONS

### GAS and GAS PRESSURE

**⚠ CAUTION** This unit is factory supplied in Natural Gas. This unit can be converted to L.P. gas by a licensed and certified gas technician. Documentation may be necessary for warranty issues. Failure to comply with this instruction will void warranty. **See the included L.P. conversion kit for gas conversion parts and instructions.**

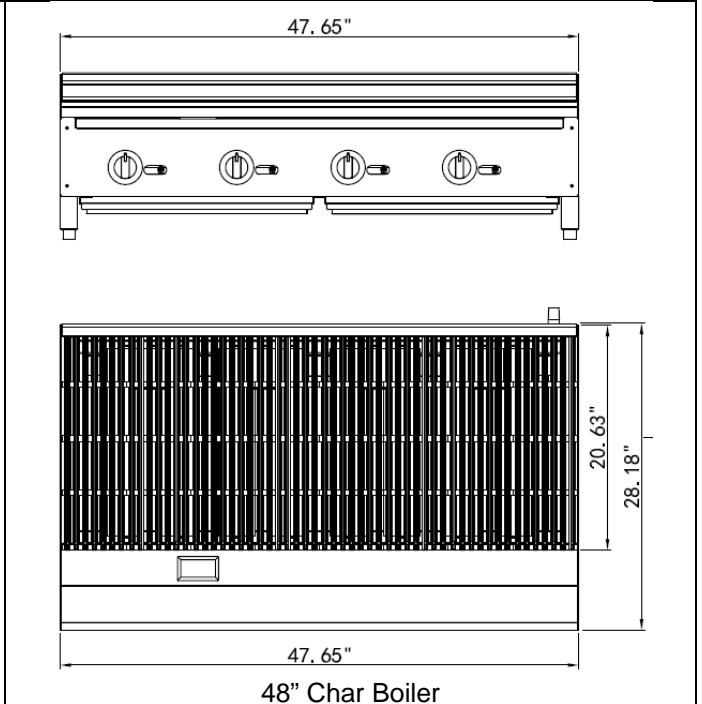
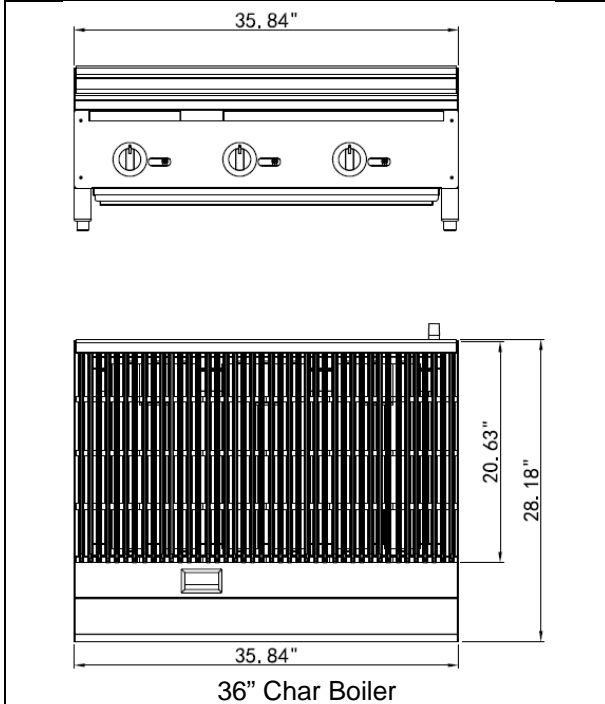
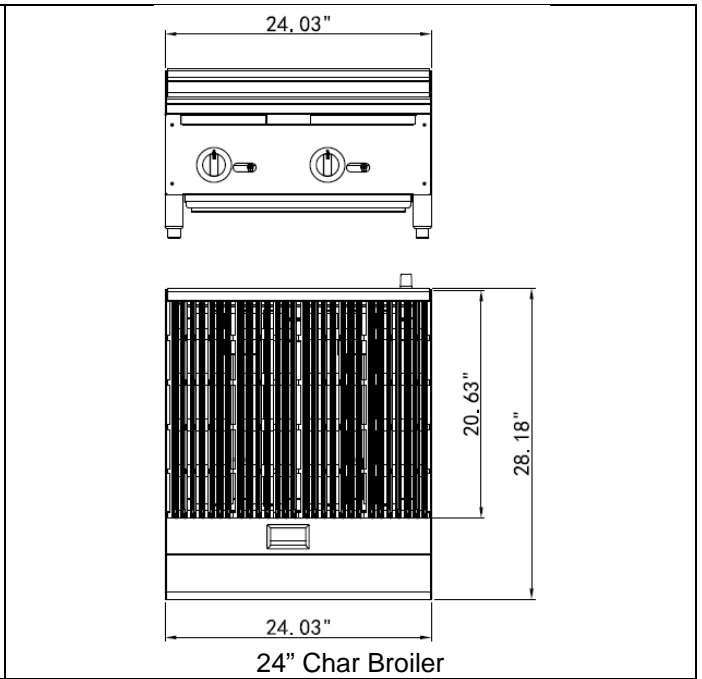
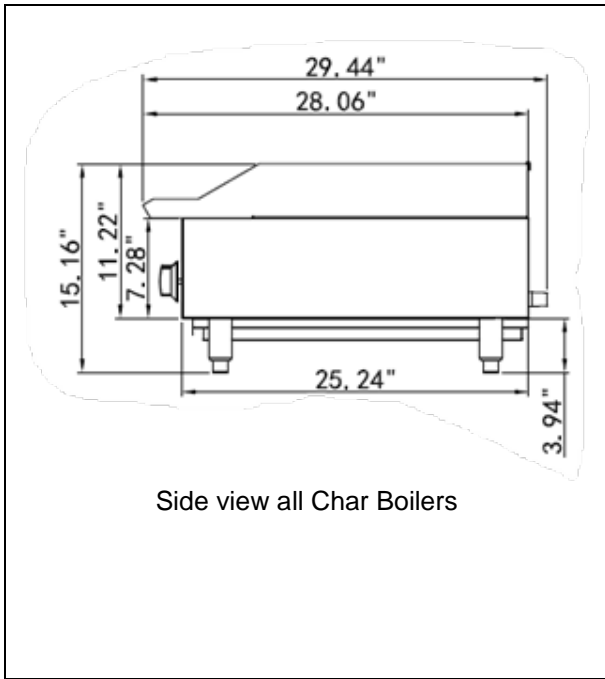
**⚠ WARNING** Unit installation must conform to the National Fuel Gas Code, ANSI Z223.1/NFPA 54, the National Gas Installation Code, CSA-B149.1, or the Propane Installation Code, CSA-B149.2 as applicable and in accordance with local codes.

**⚠ WARNING** The appliance and its individual shutoff valve (to be supplied by user) must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2" P.S.I. (3.45kPa).

These models are designed, built, and sold for commercial use only.

Instructions must be posted in a prominent location. All safety precautions must be taken in the event the user smells gas. Safety information can be obtained from your local gas supplier.

## SPECIFICATIONS (Continued)



Model	Description	BTU.hr	Number of Burners	Gas Type
VBR14	Gas Char Broiler 14"	35,000	1	Natural Gas or Propane*
VBR24	Gas Char Broiler 24"	70,000	2	Natural Gas or Propane*
VBR36	Gas Char Broiler 36"	105,000	3	Natural Gas or Propane*
VBR48	Gas Char Broiler 48"	140,000	4	Natural Gas or Propane*

\*Shipped setup for Natural Gas and includes a kit for conversion to Propane Gas



**UNPACKING**

Unpack the Char Boiler immediately after receipt. Remove the Gas Char Boiler from the crate; remove all packaging on and surrounding the unit and be certain to remove all protective plastics and residues from all surfaces. Make sure that all parts provided including the L.P. gas conversion kit are located. Equipment must have the legs properly installed before use. Before using this equipment it must be cleaned and dried thoroughly.

## **INSTALLATION**

NOTE: It is vital that the purchaser of this equipment post in a prominent location instructions to be followed in the event that the user smells gas. This information shall be obtained by consulting the local gas supplier. The purchaser of this equipment must post in a prominent location.

1. Read this manual thoroughly before installation and operation. DO NOT proceed with installation and operation if you have any questions or do not understand anything in this manual. Contact your local representative or VIONET first.
2. Select a location for the Char Boiler that has a level, solid, nonskid surface that is nonflammable and away from water hazards or sinks, and is in a well-lighted work area away from children and visitors.
3. This equipment but be installed under a proper ventilation as required by local code.  
**\*NOTICE**  
**Local codes regarding installation and ventilation vary greatly by area. The National Fire Protection Association states in its NFPA 96 latest edition (see NFPA page at the beginning of this manual) that local codes are “authority having jurisdiction” when it comes to requirements for installation of equipment. Therefore, installation should comply with all local codes.**
4. Screw legs into the permanently fastened nuts on the four corners of the unit and tighten by hand. Legs must be installed to adequately provide proper ventilation to the unit.
5. Level unit by adjusting the four feet and tighten securely. The adjustable feet have an adjustment of one inch. Do not slide unit with legs mounted, lift if necessary to move unit.
6. The supplied gas pressure regulator is factory set at 4” Natural Gas W.C. or 10” Propane Gas
7. THESE UNITS ARE SUITABLE FOR INSTALLATION ON NON-COMBUSTIBLE SURFACE ONLY. Noncombustible clearances: 6” sides (152 mm), 6” rear (152 mm), 4” floor (102 mm).
8. Do not obstruct the flow of combustion and ventilation air under the unit by the legs or behind the unit by the flue. Do not place objects between the bottom of the unit and the counter top.
9. There must be adequate clearance for removal of the front panel. All major parts except the burners are removable through the front if the gas is disconnected.
10. It may be necessary to adjust the balance of gas volume and air supply to each burner. This must be done by and authorized service technician.
11. Pipe threading compound must be resistant to the action of liquefied petroleum gas. DO NOT USE TEFLON TAPE.

**⚠WARNING** DO NOT use an open flame to check for leaks. Check all gas piping for leaks with a soap and water solution before operating the unit

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

- The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ PSI (3.5kPa).
- 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 supply piping system at test pressures equal to less than ½ PSI (3.5kPa).

**Clearance and positioning around the appliance:** This appliance must be installed adjacent to non-combustible surfaces only with a minimum spacing of six (6”) inches from all sides. This appliance must be a

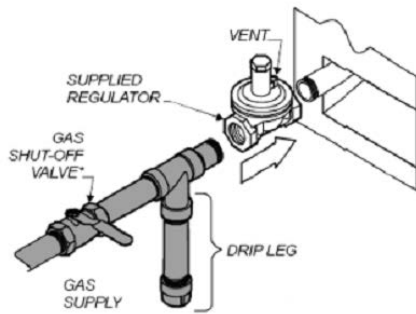
minimum distance of six (6") inches from another appliance. The appliance must have the supplied four (4") inch legs installed and be placed on a non-combustible surface.

**Air supply and ventilation:** The area in front and around the appliances must be kept clear to avoid any obstruction of the flow of combustion and ventilation air. Adequate clearance must be maintained at all times in front and at the sides of the appliance for servicing and proper ventilation.

**Pressure Regulator:** All commercial cooking equipment must have a pressure regulator on the incoming service line for safe and efficient operation. The regulator provided for this appliance is adaptable for both Natural Gas and Liquefied Propane (LP) Gas. A conversion kit with separate instructions is included explaining this procedure in detail.

**Regulator information:** 3/4" NPT (National Pipe Thread) inlet and outlet; factory adjusted for four (4") inch Water Column (WC) Natural Gas standard and may be converted by qualified personnel to be used for Propane at ten (10") Water Column pressure.

Prior to connecting the regulator, check the incoming line pressure. The regulator can only withstand a maximum pressure of 1/2 PSI (14" WC). If the line pressure is beyond this limit, a step down regulator before the regulator provided will be required. The arrow forged into the bottom of the regulator body shows gas flow direction, and should point downstream to the appliance.



Connection diagram

**Gas Conversion:** Conversion from Natural Gas to Liquefied Propane (LP) or vice versa may only be performed by the factory or its authorized service agent. In the case of troubleshooting, ensure that the correct orifice sizes of the spuds have been provided.

Natural Gas Orifice #33dms  
Liquefied Propane (LP) Orifice #49 dms

**NOTE:** The orifice size is marked on the spud.

**Gas Connection:** The appliance comes fitted with a 3/4" NPT (National Pipe Thread) male adapter for connection to the pressure regulator.

**Maintenance:** A qualified service company should check the unit for safe and efficient operation on an annual basis. Contact the factory representative or local service company to perform maintenance and repairs.

**Gas Piping:** Gas piping shall be of such size and so installed as to provide a supply of gas sufficient to meet the full gas input of the appliance. If the appliance is to be connected to existing piping, it shall be checked to determine if it has adequate capacity. Joint compound (pipe dope) shall be used sparingly and only on the male threads of the pipe joints. Such compounds must be resistant to the action of Liquefied Propane (LP) gases.

**CAUTION** Any loose dirt or metal particles, which are allowed to enter the gas lines on this appliance, will damage the valve and affect its operation. When installing this appliance, all pipe and fittings must be free from any internal contaminants. It is recommended that a "drip leg" be installed in-line before the regulator.

**Manual Shut Off Valve:** A manual shut off valve should be installed upstream from the manifold, within four (4) feet, (1.2M) of the appliance and in a position where it can be reached in the event of an emergency.

**Checking For Gas Leaks:** Using a gas leak detector or a soapy water solution is recommended for locating gas leaks. Matches, candle flame or other sources of ignition shall not be used for this purpose. Check entire piping system for leaks.

**Exhaust Canopy:** Cooking appliances inherently create a good deal of heat and smoke and should be installed under an efficient exhaust hood with flame proof filters. A vertical distance of not less than four (4) feet shall be provided between the top of the appliance and filters or any other combustible material.

**⚠️WARNING FIRE DEATH HAZARD** If you smell gas follow the instruction provided by the gas supplier. Do not touch any electrical switch; do not try to light the burner; do not use a telephone within close proximity.

**Lighting the Pilot:** The manifold units are equipped with a standing pilots and each should be lit immediately after the gas is supplied to the appliance.

1. Before attempting to light pilots, turn off the main gas valve to the appliance and wait five (5) minutes to clear the gas.
2. Turn off all gas control knobs (E). See figure 1.
3. Turn on main gas valve and light all pilots.
4. The pilot burner must be lit at the end of the tube. Hold an ignition source through the pilot light hole (D) in the front panel at the pilot tube. When the flame is established remove ignition source.
5. To shut down the appliance, turn off the main gas valve to the appliance.

**NOTE:** Smoke appearing on initial use of the appliance is normal. This is a result of the rust preventative coating burning off. This will occur for at least fifteen (15) minutes during the first use or seasoning process.

**Pilot Flame Regulation:** The pilot flame on the appliance has been factory adjusted. When adjustment is necessary, adjust the pilot flames as small as possible, but high enough to light the burner immediately when burner valve is turned to the "HIGH" setting. Access to the pilot flame adjustment screw is obtained by removing the front panel.

**Burner Adjustment:** Remove the front panel to gain access. Turn burner valve knob to "HIGH" position. Slowly decrease mixing ring aperture to give a soft blue flame having luminous tips, then slowly increase opening to a point where the yellow tips disappear and a hard blue flame is obtained.

**COMMISSIONING:** Commission of your new Char Boiler is of the utmost importance. Commissioning is the thorough and methodical testing of the equipment, subsystems, and systems to ensure that the final product functions properly and safely at the work site. By identifying any potential problems (i.e.: equipment location, ventilation, local fire/electrical codes, installation, operator training, and certification) prior to equipment being placed into service, costly outages and potential damages may be avoided.

**ALWAYS SAFETY FIRST!**

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

**⚠️WARNING FIRE HAZARD**  
Do not install or use without 4" legs. Use of this equipment without legs can cause the appliance to overheat and cause a fire.

**⚠️WARNING FIRE, INJURY or DEATH HAZARD** This appliance is for use in non-combustible location only

**⚠️WARNING FIRE, INJURY or DEATH HAZARD**

This equipment must be installed by a qualified installer in accordance with all federal, state and local codes. Failure to install this equipment properly can result in injury or death.

**⚠️WARNING FIRE and INJURY or DEATH HAZARD**

Injuries or death can occur if this equipment is not used properly. To reduce risk of injury or death:

- Keep the appliance area free and clear from combustibles
- Do not obstruct the flow of combustion and ventilation air
- Do not spray controls or the outside of the appliance with liquids or cleaning agents
- Let hot appliance cool before cleaning or moving
- The appliance should only be used in a flat, level position
- Do not operate unattended

**IMPORTANT SAFEGUARDS & SAFETY INSTRUCTIONS**

**⚠️CAUTION** When using gas cooking equipment, basic safety precautions should always be followed, including the following:

The Char Boiler outside surfaces may become HOT after use. Use caution when touching the unit.

- Never directly touch the cooking surface while the Char Boiler is on.
- Always turn off the unit when not in use, servicing or adjusting any parts or attachments, and before cleaning.
- Never leave the Char Boiler on overnight.
- Do not operate any equipment with a damaged or leaking gas line, ignitor, or valve or if the unit is dropped or damaged in any manner. Call for Service.
- The use of attachments not recommended or sold by the manufacture may cause fire, injury or even death.
- **DO NOT US OUTDOORS.**
- Do not use this equipment for any use other that the use intended by the manufacturer.
- Never use the Char Boiler as a heating source.
- The Char Boiler does not contain **any** user-serviceable parts. Dealer or recommended qualified technicians should carry out repairs. Do not remove any components or service panels on this product.
- Never bypass, alter, modify, or attach any unauthorized parts to this equipment. Doing so may create a hazard and will void warranty.
- We take every care to ensure that all products are safe. Steel cutting procedures used to manufacture these items, result in sharp edges. These sharp edges are removed to the best of our ability; however, we insist the operator take care when in contact with this piece of equipment.
- Always keep hands, hair, and clothing away from heating source.
- Allow the Char Boiler to cool down after use and before dismantling for cleaning; the unit will be too hot to handle immediately after use.
- **DO NOT USE ICE TO COOL DOWN THE CHAR BOILER PLATE.** This will cause the Char Boiler plate to warp and render it unusable.



## OPERATING INSTRUCTIONS

### **Operating the Char Boiler – Pilot Lighting Instructions for MANUALLY CONTROLLED CHAR BOILERS**

Before operating Char Boiler, it should be checked to see that is sitting level. Adjust the feet to level the Char Boiler. Be sure the catch tray had been properly placed.

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

1. Make sure all knobs are in the "OFF" position.
2. The main gas valve should be "CLOSED/OFF" for five (5) minutes prior to lighting pilots to clear any existing gas. (Main gas valve is supplied by others.)
3. Turn "ON" or "OPEN" the main gas valve to the unit.
4. Light and hold an ignition source (match) at the pilots. When the flame is established, remove the ignition source. Repeat this step for each burner as each burner has its own individual pilot. The pilot can be reached through the holes in the front of the unit.
5. Turn each burner knob "ON". If the burners do not ignite promptly, turn the knobs "OFF". From the opening in the front panel, use a screwdriver and turn the pilot valve screw counterclockwise, which will increase the flame height and repeat step 4.

If the pilot flame appears large than necessary, turn it down and retest the burner ignition. The pilot flame should be as small as possible but large enough to guarantee reliable ignition of the burners when the knobs are turned to "ON". In the holes located in the front panel are pilot valve adjustments. Use a screwdriver to turn the valve to adjust the flame height to your desired level.

**⚠ CAUTION** All burners are lit from constantly burning pilots. Turning the valve to the desired flame height is all that is required to put the unit in service.

## OPERATING INSTRUCTIONS

### **Igniting the Burner**

To ignite the burner, turn knob to the "ON" position, then back off to the desired flame level. The range of adjustment is virtually infinite between "ON" and "OFF". The space between the legs at the bottom admits combustion air. **DO NOT BLOCK THIS SPACE.**

All burners are lit from a constantly burning pilots. Turning the valve to the desired flame height is all that is required to put the unit in service.

Do not permit fans to blow directly at the unit. Whenever possible, avoid open windows next to the unit's sides or back. Avoid wall type fans which create air cross-currents within a room.

It is also necessary that sufficient air should be allowed to enter the room to compensate for the amount of air removed by any ventilation system. Otherwise, a subnormal atmospheric pressure will occur, affecting operation and causing undesirable working conditions.

A properly designed and installed hood will act as the heart for the ventilation system for the room or area in which the unit is installed, and will leave the unit independent of changing draft conditions.

NOTE: It may be necessary to adjust the balance of gas, volume, and air supply to each burner. This must be done by an authorized service technician.

## SEASONING THE CHAR BOILER

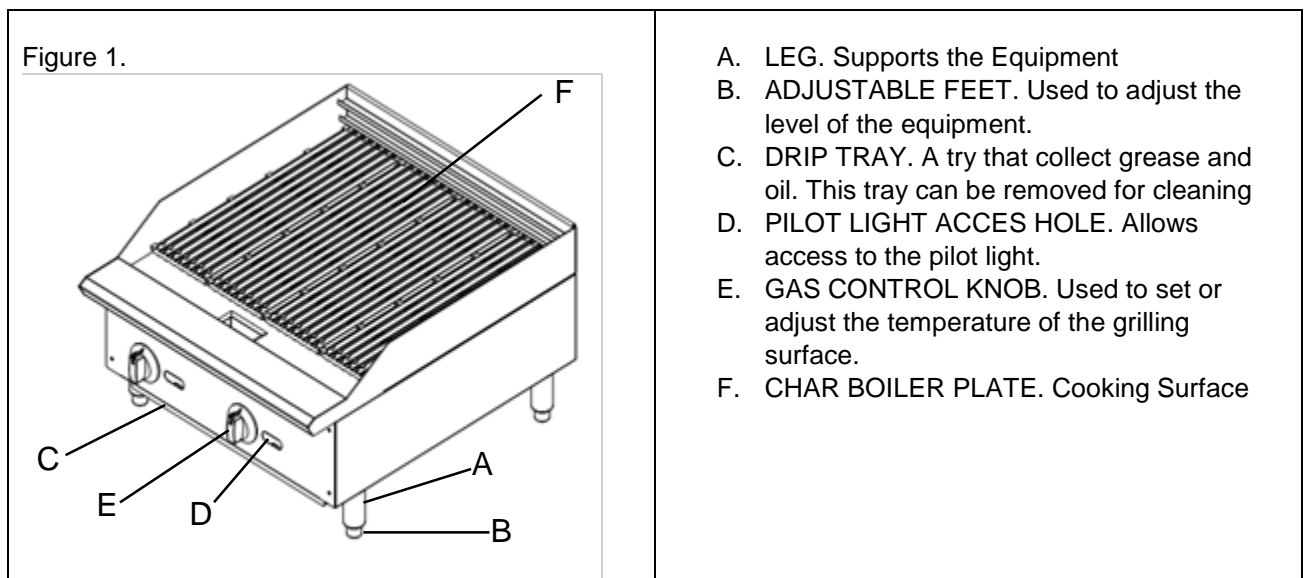
Be sure to start with a clean Char Boiler surface. Pour small amount of high quality cooking oil to the Char Boiler clean cloth (about one ounce (30 cc) per square foot of surface. Spread the oil (thin coat) over the entire Char Boiler grids. NOTE: Do not use excessive oil, just a small amount. Turn on the Char Boiler to the lowest flame height and allow to heat for approximately 30 minutes. The cooking grids are now ready for use.

**Note:** Each time the Char Boiler is cleaned with soap and WATER, the seasoning is removed and this process must be repeated.

## OPERATING THE CHAR BOILER

Turn the burners on about 15-20 minutes before cooking for preheating. Set the knobs to the desired flame height or temperature.

Each valve controls the gas flow to the burner to bring that area of the Char Boiler up to the desired temperature. If different temperature settings are to be used, adjoining areas should be set to a progressively higher temperatures using the lowest temperature on the outside burners. A uniform and systematic approach to the loading of the unit will produce the most consistent product results.



## CLEANING INSTRUCTIONS

### ⚠ CAUTION

- **DO NOT** use any abrasive or flammable cleaning fluids.
- **DO NOT** hose down, immerse, or pressure wash any part of the Char Boiler, excluding the catch tray.
- **NEVER** use a scrubber pad (on all exterior surfaces, except the Char Boiler plate), steel wool or abrasive material, or cleaners containing chlorine, iodine and ammonia, or bromine chemicals as these will deteriorate the stainless steel and shorten the life of the unit.

**⚠ CAUTION** IF CLEANING ALL THE CHAR BOILER'S SURFACES, THE MAIN GAS VALVE MUST BE SWITCHED TO THE CLOSED POSITION. AFTER CLEANING, THE GAS LINE CAN BE SWITCHED BACK TO THE OPEN POSITION. PLEASE FOLLOW THE LIGHTING INSTRUCTION IN THE MANUAL TO RELIGHT THE BROILER'S PILOT LIGHTS AS NEEDED.

## Recommended Cleaning

It takes very little time and effort to keep the Char Boiler attractive and performing at top efficiency. Wait until the Char Boiler is cool after the unit had been turned off. Please follow the cleaning steps below:

PART	REQUIRED ACTION	FREQUENCY
Body	Use a clean cloth and a non-abrasive cleaner to clean the stainless steel body of the Char Boiler. Wipe the polished areas with a soft cloth.	Daily
Back and Side Splashes	Thoroughly clean. Wipe with clean, warm medley soapy water then re-wipe splashes with a damp cloth.	Daily
Controls	Unit should be turned off when not in use. It is recommended that the unit be disconnected from the gas supply by closing the main gas valve. Use a clean cloth to wipe any grease or debris from the control knobs.	Daily
Char Boiler Grids	Clean surface with a grill brush or metal scrapper.  <ul style="list-style-type: none"> <li>• Remove cooking grids from the Char Boiler. Place in a sink or cleaning tub.</li> <li>• Clean the Char Boiler surface thoroughly. If necessary, use a Char Boiler wire brush.</li> <li>• Wash with mild soap and warm water.</li> <li>• Remove all soap and debris thoroughly; wipe with a clean, damp cloth.</li> <li>• The cooking grids should then be covered with a thin film of oil to prevent rusting.</li> <li>• Clean stainless surfaces with a damp cloth and polish with a soft dry cloth. To remove discoloration, use a nonabrasive cleaner.</li> <li>• After each “weekly” cleaning, the Char Boiler must be seasoned again. If the Char Boiler usage is very high, the “weekly” cleaning procedures may be done more often than once a week. The use of ice on the Char Boiler plate to cool may damage the plate.</li> </ul>	Daily & Weekly
Catch Tray	Once the unit has cooled, remove the catch tray and discard the waste, grease, debris, and crumbs. CAUTION: If the catch tray is permitted to fill too high, grease/debris is likely to accumulate under the unit. This catch tray/drawer is removed by pulling forward.  <b>USE CAUTION WHEN REMOVING!</b>	As Needed

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Char Boiler not lighting	<p>Main gas line is closed.</p> <p>Quick disconnect not inserted all the way.</p> <p>Pilot light is not lit.</p> <p>Cause unknown</p>	<p>Open Valve</p> <p>Check quick disconnect and make sure it is fully inserted into female coupling.</p> <p>Ignite pilot light.</p> <p>Call for service.</p>
Flame is too high or too low	Adjustment knob is turned up or down	Adjust flame with control knob.
Pilot light not staying lit.	<p>Flame is too low</p> <p>Pilot tube clogged.</p>	<p>Adjust pilot light flame height.</p> <p>Replace pilot tube. Call for service.</p>
Strong smell of gas in cooking area.	<p>Main gas line leak</p> <p>One or more of the pilot may be out and burner knob turned on.</p>	<p>Turn off main gas valve. DO NOT LIGHT FLAME, ignite anything, or turn/switch on anything electrical. Call Fire department if needed and call for service.</p> <p>Check to see if burners and pilots are lit. If not, turn off all burner valves and main gas valve and wait for excess gas to dissipate. Reattempt to light pilots after allowing excess gas to clear.</p>
Cooking surface is heating up slowly.	<p>Carbon buildup on Char Boiler surface.</p> <p>Cause unknown</p>	<p>Clean Char Boiler surface.</p> <p>Call for service.</p>
Gas type of unit needs to be converted.	Unit ships from the factory Natural gas. Conversion from Natural Gas to L.P. is possible for this unit.	Call for service. This is not considered a warranty issue. Do not attempt conversion on your own.

If problems persist and the assigned solution does not remedy the issue, please call for service.

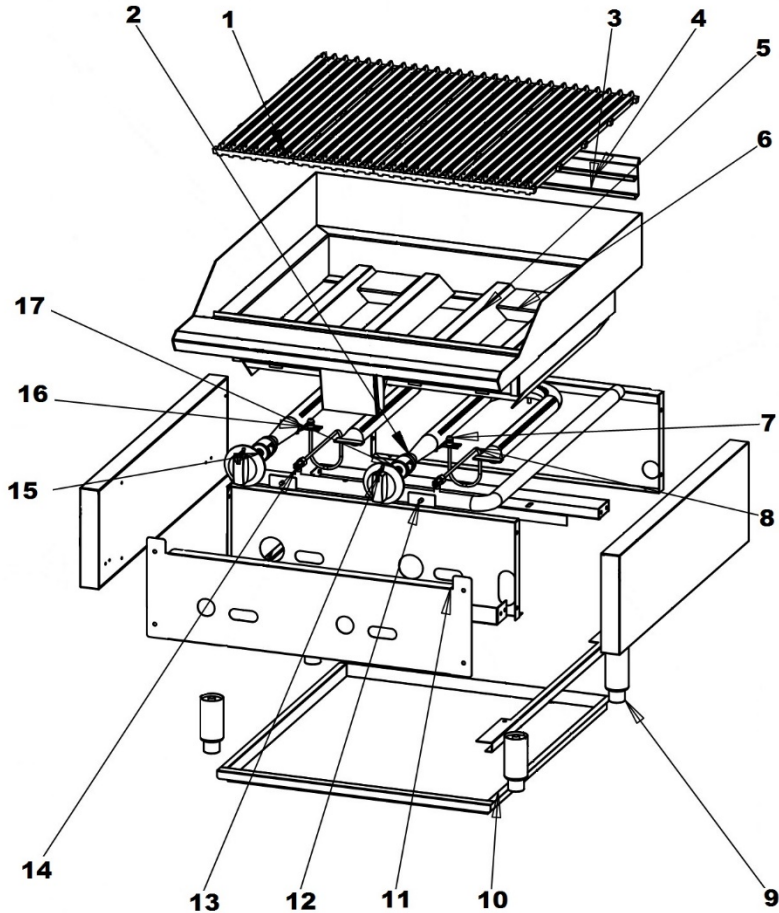
# PARTS

## NOTICE

INSTALLATION OF OTHER THAN GENUINE VIONET PARTS WILL VOID THE WARRANTY ON THIS EQUIPMENT.

The serial plate is located on the inside, behind the front panel. Replacement parts may be ordered either through an VIONET Authorized Parts Distributor or an VIONET Authorized Service Agency

When ordering parts, please supply the Model Number, Serial Number, Part Number, and Description.



Ref #	Part #	Description	Ref #	Part #	Description
1	GC10016	COOKING GRID	10	GC10022	DRIP PAN
2	GC10001	U-SHAPED BURNER	11	GC10023	FRONT PANEL
3	GC10017	HEIGHT ADJUSTMENT LOWER	12	GC10024	GAS INLET PIPE
4	GC10018	HEIGHT ADJUSTMENT UPPER	13	GC10025	CHAR BOILER DIAL
5	GC10019	BURNER RADIANT	14	GC10005	PILOT VALVE
6	GC10020	BURNER RADIANT SPRT	15	GC10004	GAS VALVE
7	GC10003	PILOT	16	GC10002	PILOT BRACKET
8	GC10021	PILOT TUBING	17	GC10009	ORIFICE HOOD
9	GC10008	ADJUSTABLE LEG	*	GC10015	PRESSURE REGULATOR

\*Char Boiler Thermostat and Dial are not shown.



## INSTALLATION & OPERATION MANUAL GAS COUNTER SERIES CHAR BOILERS

A product with the VIONET name incorporates the best in durability and low maintenance. We all recognize, however, that replacement parts and occasional professional service may be necessary to extend the useful life of this unit. When service is needed, contact a VIONET Authorized Service Agency, or your dealer. To avoid confusion, always refer to the Model Number, Serial Number, and Type of your unit.

