



COPPER AND CAST STONE FIRE & WATER BOWLS

INSTALLATION, MAINTENANCE, & WARRANTY GUIDELINES



FOR YOUR SAFETY – PLEASE READ BEFORE OPERATING!

THIS PRODUCT MUST BE INSTALLED AND SERVICED BY AUTHORIZED PERSONNEL. FAILURE TO FOLLOW THESE INSTRUCTIONS EXACTLY CAN RESULT IN FIRE, EXPLOSION, PERSONAL INJURY, DEATH, DAMAGED EQUIPMENT, AND PROPERTY DAMAGE.

WHAT TO DO IF YOU SMELL GAS

- Do not store or use any gasoline or other flammable vapors and/or liquids in the vicinity of this or any other unit.
- If you smell gas, shut off gas to the unit.
- Extinguish any open flame near the unit.
- Do not attempt to manually light any automated electronic burner assembly.
- If odor continues, move away from the area and immediately call your gas supplier.

This manual should remain with the homeowner or parties responsible for the operation of the unit.

FOR USE WITH NATURAL OR LIQUID PROPANE GAS ONLY! DO NOT USE SOLID FUELS.

WARNING AND SAFETY INFORMATION

CODE REQUIREMENTS:

Installation must be in accordance with all local codes and/or the latest edition of the National Fuel Gas Code, ANSI Z223.1 and the latest edition of the National Electrical Code, NFPA 70 (US).

Installation in Canada must be in accordance with the latest CAN/CGA-B149.1 or.2 and CSA C22.1 Canadian Electric Code, part 1.

Installations must be electrically grounded and bonded in accordance with local codes, or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 (US) or in Canada in accordance with the Canadian Electric Code, part 1 as applicable.





SAFETY CODE APPROVAL CERTIFICATION

LOW VOLTAGE LANDSCAPE AND SWIMMING POOL/SPA AUTOMATIC IGNITION GAS BURNER ASSEMBLY AND TRANSFORMER PANEL. Approved for use near pool edge. The Fireside Expressions fire burner assembly is CSA/AGA approved. It is tested and approved to the nationally recognized specification ANSI Z21.42-2013 Gas-Fired Illuminating Appliances in compliance with the 2017 NEC code allowing for approved burner assemblies to be next to the water's edge on swimming pools.

24V AUTOMATIC IGNITION GAS BURNER ASSEMBLY: CSA 2.41 2012

TRANSFORMER PANEL, Input 120VAC - Output 24VAC: UL LISTED - No. CL917538

Tested to: National Fuel Gas Code ANSI Z223.1, ANSI Z21.97, ANSI Z21.42

OPERATING CONDITIONS

The unit should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary depending on environmental conditions. It is imperative that the transformer panel, pilot hood, burner assembly and circulating air passageways of the unit be kept clean and free of debris.

This system is not designed to operate in wind conditions exceeding 10MPH.

DO NOT use this unit if any part of the burner assembly has been under water or is soaked heavily. Immediately call a licensed contractor to inspect the unit and to replace any part of the burner assembly that has been under water.

Should overheating occur or the gas supply fail to shut off, turn off the manual gas control valve to the burner assembly.

WARNING:

HOT! DO NOT TOUCH - FIRE RISK/ BURN RISK. SEVERE BURNS MAY RESULT - CLOTHING IGNITION MAY RESULT! KEEP CHILDREN AWAY! CAREFULLY SUPERVISE CHILDREN! CLOTHING OR OTHER FLAMMABLE MATERIALS SHOULD NOT BE HUNG FROM THE UNIT NOR PLACED ON OR NEAR THE UNIT.



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READ THIS INSTRUCTION GUIDE IN ITS ENTIRETY PRIOR TO INSTALLATION.



WARRANTY

FIRE + WATER ELEMENTS – FIRE AND WATER BOWLS WARRANTY

1-YEAR LIMITED RESIDENTIAL WARRANTY

Fireside Expressions will attempt to repair any unit, when used as intended, which has proven to be defective in workmanship or material, preventing the proper operation of the unit when reported within one year of the date of purchase. This warranty does not cover any costs related to removal or replacement of the unit. For warranty consideration, contact the original dealer and provide proof of purchase, date of purchase, and the date of installation. The dealer will contact Fireside Expressions to obtain instructions regarding the claim. If the unit is deemed defective and cannot be repaired, Fireside Expressions will replace it. This warranty only applies to residential use of the unit. The customer is responsible for shipping costs, which may be reimbursed by Fireside Expressions should the unit be deemed defective.

IF NECESSARY, THE UNIT MUST BE REMOVED AND REPLACED ONLY BY A LICENSED PROFESSIONAL IN THE PLUMBING AND/OR ELECTRICAL TRADE. DO NOT ATTEMPT TO REMOVE AND REPLACE THE UNIT YOURSELF.

Fireside Expressions will not be responsible for any asserted defect, which has resulted from accidents, over-heating, freeze/thaw, misuse, abuse, repair or alteration. Under no circumstances will Fireside Expressions be liable for incidental or consequential damage resulting from defective units, improper installation, or improper removal. This warranty is your sole warranty and sets forth your exclusive remedy with respect to defective units. All other warranties, expressed or implied, whether of merchantability, fitness for purpose or otherwise, are expressly disclaimed by Fireside Expressions. Fireside Expressions is not responsible for any injury or mishap related to misuse, abuse or lack of judgment in choosing fire display locations.

In addition, this warranty does not apply to any damages caused by: (1) any failure resulting from unreasonable use or abuse, (2) unsatisfactory material choices by you or the installer, and (3) accidental damage or element damage such as water or rain. Fireside Expressions is not responsible for the application of local codes and/or if the unit is not approved for installation. Please check with your local building department or governing agencies for prior approval before purchasing. Fireside Expressions is not responsible for the actions and omissions, including negligence, of the installer. Fireside Expressions will not warranty fire bowls and fire pits in which a burner unit purchased from another supplier is used.

Contact Us

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SYSTEM REQUIREMENTS

WATER REQUIREMENTS:

Water flow per bowl: 10 – 15 GPM Water supply line should be 3/4" Schedule 40 PVC to each bowl. A larger diameter main supply line may be needed for multiple bowl applications.

GAS REQUIREMENTS:

The required gas pressure and flow should be measured at each bowl location.

Natural Gas: 7" WC (0.25 psi)

Propane (LP): 11" WC (0.4 psi)

Gas supply line should be 1/2" Schedule 40 black steel gas pipe to each bowl. A larger diameter main supply line may be needed for multiple bowl applications. NOTE: Check with your gas supplier to verify gas flow and pressure available at the location of your installation. In many cases, utility companies will install larger meters at no charge to accommodate larger flows.

Gas Flow Requirements	
Number of Bowls	BTU/hour
1 bowl system	60,000 – 80,000 BTU/hr
2 bowl system	120,000 – 160,000 BTU/hr
3 bowl system	180,000 – 240,000 BTU/hr
4 bowl system	240,000 – 320,000 BTU/hr

ELECTRICAL REQUIREMENTS:

Transformer panel input voltage: 120VAC / 60Hz

Transformer output voltage: 24VAC / 60Hz nominal

Automated burner assembly input voltage: 24VAC / 60Hz nominal

Use 14 gauge wire to connect transformer panel to bowls

System component electrical draws:

- 34 VA single fire bowl burner draw (natural gas or propane)
- 41 VA single fire pit burner draw (natural gas or propane)
- 24 VA single propane adder draw

Transformer panel power output capacities:

- 100 VA transformer panel power output capacity
- 150 VA transformer panel power output capacity
- 250 VA transformer panel power output capacity

System configurations are limited by the transformer panel power output capacity.



INSTALLATION REQUIREMENTS:

- **Installation should be performed by a licensed contractor.** All aspects of installation must be in accordance with all local codes and/or the latest edition of the National Fuel Gas Code, ANSI Z223.1 and the latest edition of the National Electrical Code, NFPA 70 (US).
- Adhere to recommended CSA/AGA clearances: sides 4ft and overhead 6ft.
- Do not install near any combustibles (side or overhead) such as wood structures, fuels, clothing, fabrics or dry vegetation.
- Install bowls well out of the way of pedestrian traffic.
- The water, gas and electrical plumbing shall be installed underground.
- Install 90° elbow at flexible gas hose gas connection at each bowl for proper installation. When connecting the flexible gas hose to the burner assembly, do not make tight radius bends or kinks in the hose. Warranty is void if not installed properly.
- Low voltage wiring (14ga 24VAC) should be installed underground between the transformer panel and each bowl. Wire per Fireside Expressions wiring diagram. 120VAC source into transformer panel can come from any 120VAC source, including pool controller or home system.
- On commercial installations, it is required to install a keyed valve switch and kill switch located in close proximity, in visible sight, of the unit. The keyed valve and kill switches are not supplied by Fireside Expressions.
- With all gas connections tight, position burner assembly so that it sits level in the bowl. Rotate as required so that the gas hose is not kinked.

SYSTEM COMPONENTS

Components required for installation. Check to make sure all components are included in the correct quantities. Bowl shape is dependent upon order. This installation guide covers all bowl shapes, all water features, and all automated and manual burner assemblies.

PLANTER ONLY BOWLS

COMPONENTS INCLUDED WITH PURCHASE

Hammered Copper

- Mounting bracket with required hardware including rubber washers
- Planter only bowl
- 4" ABS clean-out cap

Cast Stone

- Planter only bowl
- 4" ABS clean-out cap

COMPONENTS NOT INCLUDED WITH PURCHASE

- (4) Stainless steel surface anchor hardware including washers
 - Use 1/4" or 5/16" for Hammered Copper bowls
 - Use 5/16" or 1/2" for Cast Stone bowls
- Fine wire mesh or window screen is recommended to cover drain tube
- Outdoor silicone sealant
- PVC cement glue & primer



PLANTER & WATER BOWLS

COMPONENTS INCLUDED WITH PURCHASE

Hammered Copper

- Mounting bracket with required hardware including rubber washers
- 1/2" NPT plumbing kit
- Planter & Water bowl
- 4" ABS clean-out cap

Cast Stone

- 3/4" NPT plumbing kit
- Planter & Water bowl
- 4" ABS clean-out cap

COMPONENTS NOT INCLUDED WITH PURCHASE

- (4) Stainless steel surface anchor hardware including washers
 - Use 1/4" or 5/16" for Hammered Copper bowls
 - Use 5/16" or 1/2" for Cast Stone bowls
- Fine wire mesh or window screen is recommended to cover drain tube
- PTFE Teflon thread seal tape
- Outdoor silicone sealant
- PVC cement glue & primer
- **COPPER BOWL ONLY:** Water line connection 1/2" x 3/4" Schedule 40 PVC reducing male adapter – MIPT x socket
- **CAST STONE BOWL ONLY:**
 - 3/4" PVC 90° elbow
 - Water line connection 3/4" x 3/4" Schedule 40 PVC female adapter – FIPT x socket

WATER ONLY BOWLS

COMPONENTS INCLUDED WITH PURCHASE

Hammered Copper

- Mounting bracket with required hardware including rubber washers
- Copper water only plumbing parts
- Water only bowl

Cast Stone

- Cast Stone water only plumbing parts
- Water only bowl

COMPONENTS NOT INCLUDED WITH PURCHASE

- (4) Stainless steel surface anchor hardware including washers
 - Use 1/4" or 5/16" for Hammered Copper bowls
 - Use 5/16" or 1/2" for Cast Stone bowls
- PTFE Teflon thread seal tape
- PVC cement glue & primer
- **COPPER BOWL ONLY:** Water line connection 1/2" x 3/4" Schedule 40 PVC reducing male adapter – MIPT x socket
- **CAST STONE BOWL ONLY:**
 - 3/4" PVC 90° elbow
 - Water line connection 3/4" x 3/4" Schedule 40 PVC female adapter – FIPT x socket



FIRE BOWLS ONLY - COMPONENTS INCLUDED WITH PURCHASE

Hammered Copper

- Mounting bracket with required hardware including rubber washers
- Automated or manual burner assembly
- Support plate
- Flexible gas hose
- Propane adder (propane versions only)
- 24VAC transformer panel
- Fire only bowl

Cast Stone

- Automated or manual burner assembly
- Support plate
- Flexible gas hose
- Propane adder (propane versions only)
- 24VAC transformer panel
- Fire only bowl

COMPONENTS NOT INCLUDED WITH PURCHASE

- (4) Stainless steel surface anchor hardware including washers
 - Use 1/4" or 5/16" for Hammered Copper bowls
 - Use 5/16" or 1/2" for Cast Stone bowls
- Gas line connection 1/2" NPT black steel 90° elbow fitting
- **MANUAL ONLY:** 1/2" MPT x 3/8" FPT adapter, hex black steel
- **AUTOMATED ONLY:**
 - 1/2" MPT x 3/8" MPT adapter, hex black steel
 - Water tight wire connectors
- PVC cement glue & primer
- Nipple black steel 3/8" x close
- Gas key switch (valve)

FIRE & WATER BOWLS

COMPONENTS INCLUDED WITH PURCHASE

Hammered Copper

- Mounting bracket with required hardware including rubber washers
- Automated or manual burner assembly
- Support plate
- Flexible gas hose
- Propane adder (propane versions only)
- 24VAC transformer panel
- 1/2" NPT plumbing kit
- Fire & Water bowl

Cast Stone

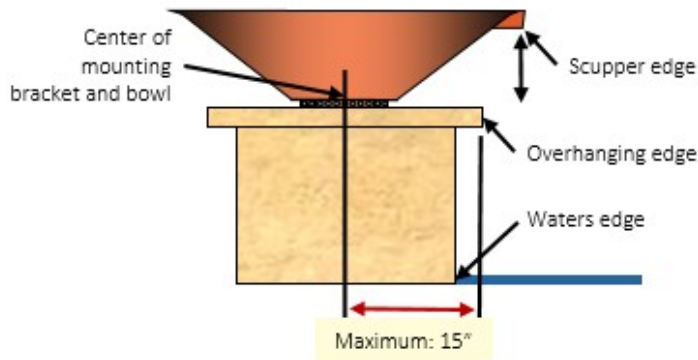
- Automated or manual burner assembly
- Support plate
- Flexible gas hose
- Propane adder (propane versions only)
- 24VAC transformer panel
- 3/4" NPT plumbing kit
- Fire & Water bowl

COMPONENTS NOT INCLUDED WITH PURCHASE

- (4) Stainless steel surface anchor hardware including washers
 - Use 1/4" or 5/16" for Copper Bowls
 - Use 5/16" or 1/2" for Cast Stone Bowls
- Gas line connection 1/2" black steel 90° elbow fitting
- Nipple black steel 3/8" x close
- Gas key switch (valve)
- **COPPER BOWL ONLY:** Water line connection 1/2" x 3/4" Schedule 40 PVC reducing male adapter – MIPT x socket
- **CAST STONE BOWL ONLY:**
 - 3/4" PVC 90° elbow
 - Water line connection 3/4" x 3/4" Schedule 40 PVC female adapter – FIPT x socket
- **MANUAL ONLY:** 1/2" MPT x 3/8" FPT adaptor, hex black steel
- **AUTOMATED ONLY:**
 - 1/2" MPT x 3/8" MPT adaptor, hex black steel
 - Water tight wire connectors
- PVC cement glue & primer
- PTFE Teflon thread seal tape



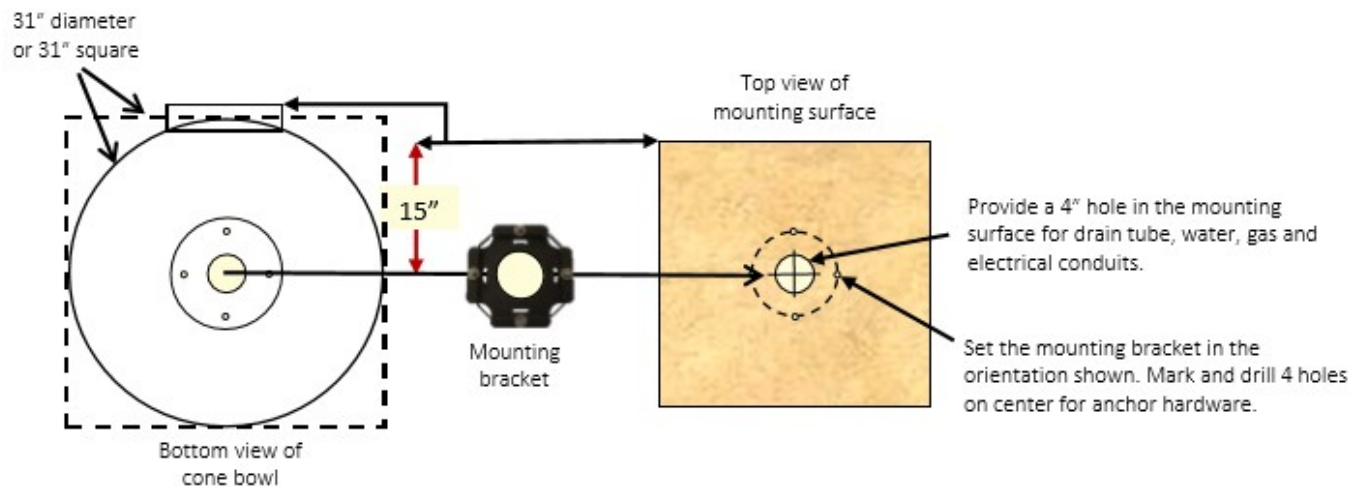
INSTALLATION GUIDE – BOWL MOUNTING



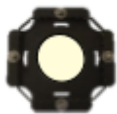
MOUNTING BRACKET FOR COPPER BOWLS ONLY

WARNING: Product warranty is voided if mounting bracket is not installed properly. It is critical that the mounting bracket be installed and kept clear of debris to provide an opening below the bowl and for ventilation to the burner assembly.

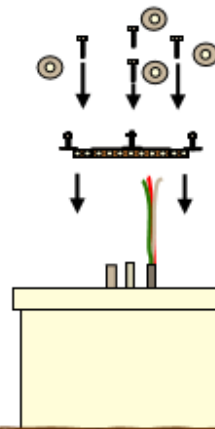
CRITICAL DIMENSION: Face the scupper towards the body of water. Set and mark the center location of the mounting bracket and bowl with a maximum of 15" from the furthest face overhanging the waters edge.



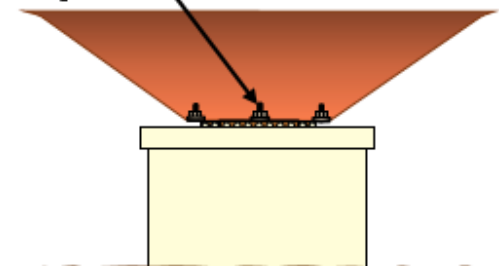
Top view of mounting bracket



1. Level mounting bracket on mounting surface. Shims may be used to level. Plastic, brass or stainless steel shims are recommended.
2. Secure mounting bracket to mounting surface with 4 stainless steel anchors and washers. Use 1/4" or 5/16" (not supplied).

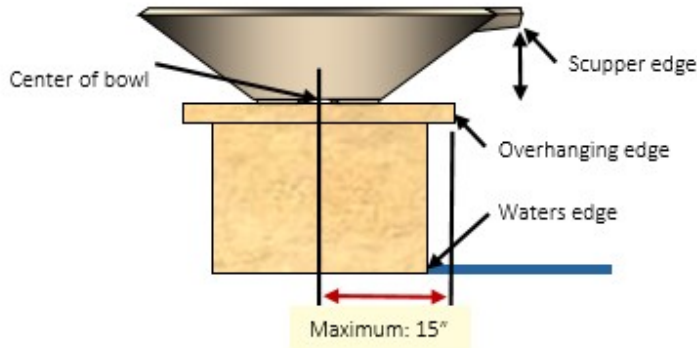


3. Set and level bowl. Place rubber washers first, then place stainless steel flat washers over the studs. Thread and tighten the four 1/4"-20 nuts to seal and secure the bowl to the mounting bracket.



INSTALLATION GUIDE – PLUMBING

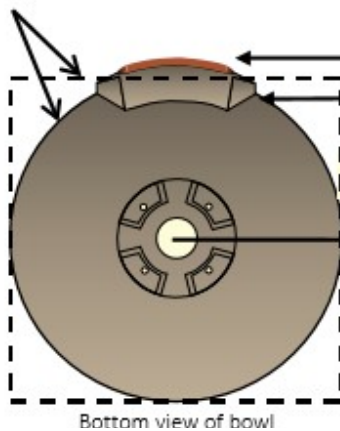
CAST STONE BOWLS



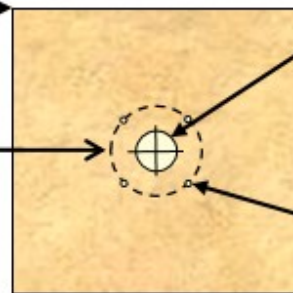
WARNING: It is critical that the openings at the bowl feet be kept clear of debris to provide an opening below the bowl for ventilation to the burner assembly.

CRITICAL DIMENSION: Face the scupper towards the body of water. Set and mark the center location of the bowl a maximum of 15" from the furthest face overhanging the waters edge.

33" diameter
or 33" square



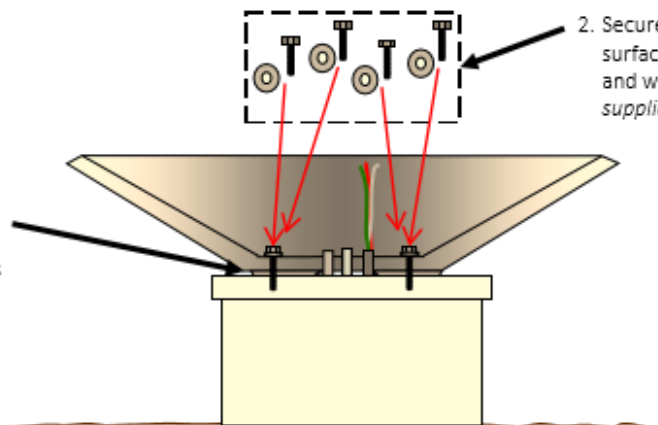
Top view of
mounting surface



Provide a 4" hole in the mounting surface for drain tube, water, gas and electrical conduits.

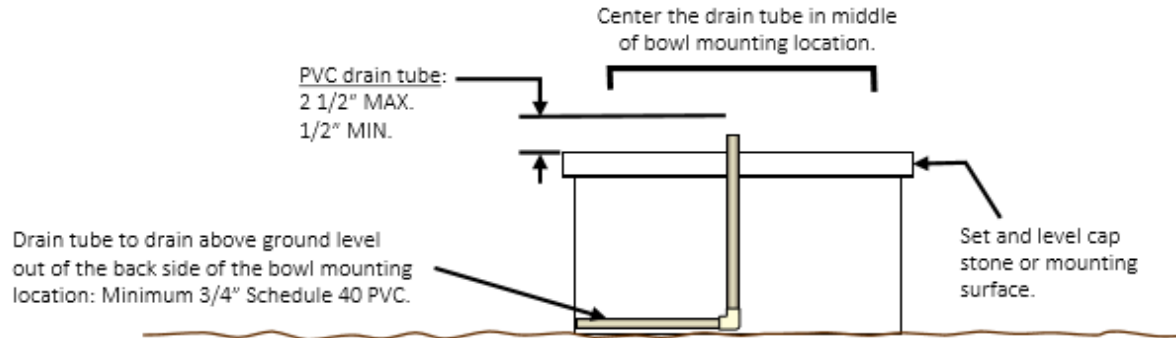
Set the bowl with the scupper feature in the orientation shown. Mark and drill 4 holes on center for anchor hardware.

1. Set and level bowl on mounting surface. Shims may be used to level. Plastic, brass or stainless steel shims are recommended.



2. Secure bowl directly to the mounting surface using 4 stainless steel anchors and washers. Use 5/16" or 1/2" (not supplied).

DRAINAGE



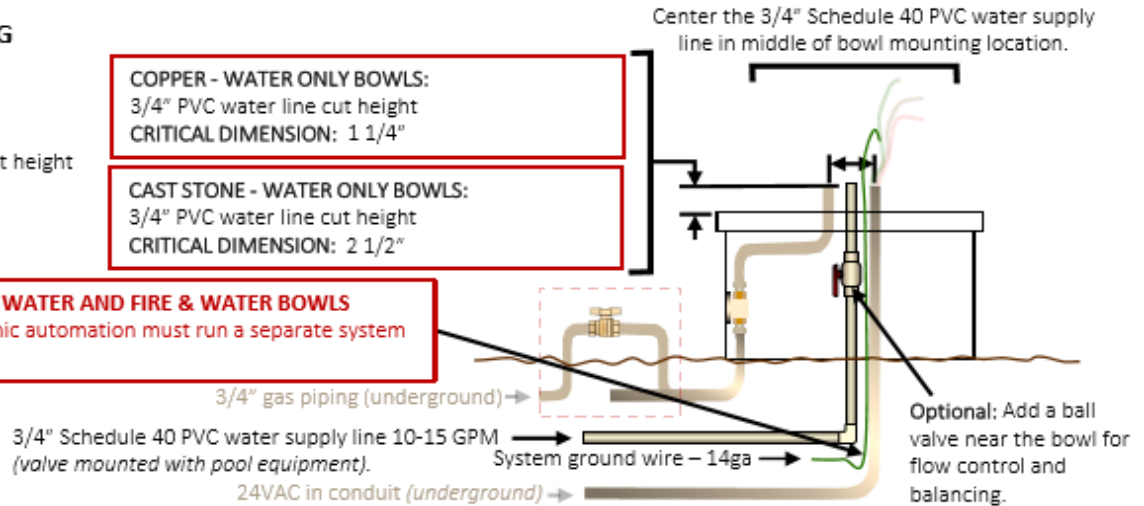
WATER PLUMBING

Planter & Water and
Fire & Water bowls:
3/4" PVC water line cut height
3 1/2" MAX.
2 1/2" MIN.

COPPER - WATER ONLY BOWLS:
3/4" PVC water line cut height
CRITICAL DIMENSION: 1 1/4"

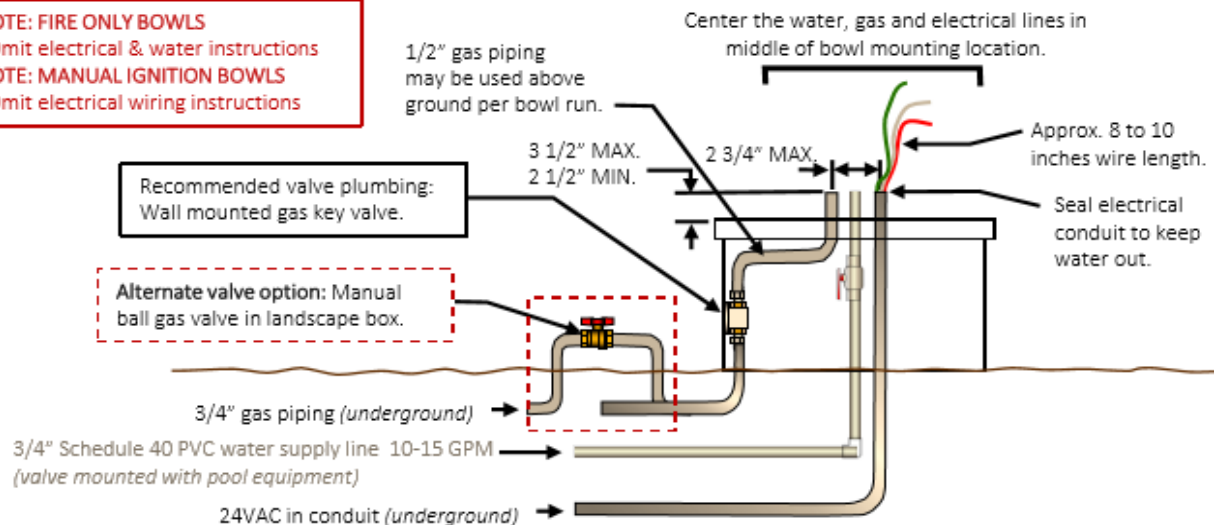
CAST STONE - WATER ONLY BOWLS:
3/4" PVC water line cut height
CRITICAL DIMENSION: 2 1/2"

***NOTE: FOR PLANTER & WATER AND FIRE & WATER BOWLS**
Systems without electronic automation must run a separate system ground wire - 14ga.



GAS, ELECTRICAL & PLUMBING

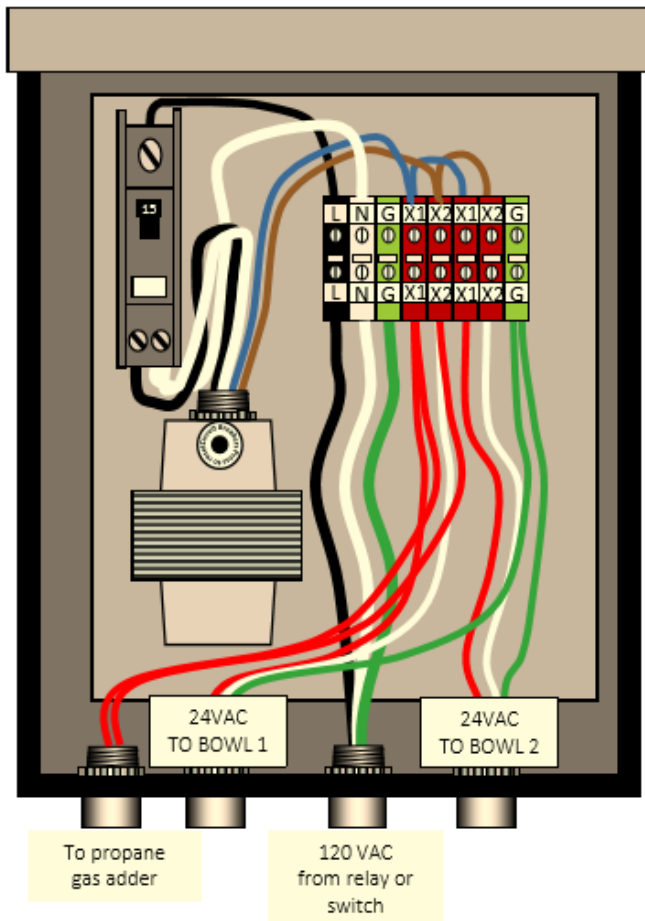
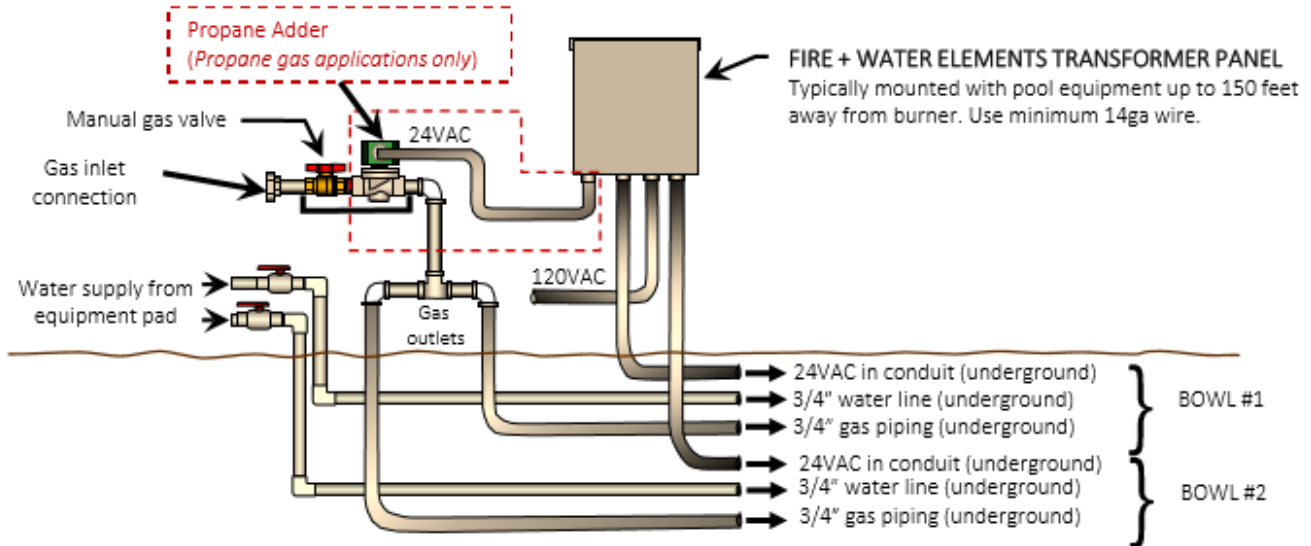
***NOTE: FIRE ONLY BOWLS**
Omit electrical & water instructions
***NOTE: MANUAL IGNITION BOWLS**
Omit electrical wiring instructions



INSTALLATION GUIDE – TRANSFORMER PANEL WIRING



EQUIPMENT PAD – WATER, GAS & ELECTRICAL



TRANSFORMER PANEL WIRING

Diagram illustrates wiring to two bowls in parallel. Bowls can be wired in parallel or in series (*daisy chain*) from one bowl to the next. Series wiring may cause a slight delay in bowl ignition down the line.

Wire 120VAC as follows:

- 120 hot (black wire) to L
- Neutral (white wire) to N
- Ground (green wire) to G

Wire 24VAC as follows:

- Red wire to X1
- White wire to X2
- Green wire to G (Ground)

PROPANE ADDER WIRING

(Propane gas applications only)

Diagram illustrates wiring a propane adder into the system. Since propane gas is heavier than air and thus can pool on the ground waiting for an ignition source, a propane adder is installed to shut off the gas supply should a gas leak occur.

Wire propane adder as follows:

- Red wires to X1 and to X2

INSTALLATION GUIDE – BOWL CONNECTIONS



COPPER PLANTER ONLY/ PLANTER & WATER BOWLS

***NOTE: PLANTER ONLY BOWLS Omit electrical ground wire and water connections.**

Wrap all threads with Teflon seal tape

- Place provided rubber washers over studs. Thread and tighten the four provided 1/4"-20 nuts and washers to the mounting bracket to seal the bowl.
 - Place the 4" ABS cleanout cap down into the 4" center hole of the bowl and mounting bracket. Use silicone to seal the cap to the inside of the bowl.
 - Connect 1/2" brass T (included in kit) to 1/2" MNPT – 3/4" socket Schedule 40 PVC adapter.
 - Orient the T so the barbed fittings point toward the scupper. Use PVC cement & primer to glue the 3/4" socket side of the adapter to the inlet water line.
 - Connect 1/2" NPT plumbing kit to scupper insert.
 - Connect system ground wire to bond lug on scupper insert.
 - Fill and seal inside the 4" ABS cleanout cap around the water and drain tubes with silicon sealant.
 - Before filling with dirt; place a fine mesh screen over the drain tube to prevent debris from clogging the outlet.
 - Test system per initial start up procedures.
 - Add plant media
- Drain tube to drain above ground level out of the back side of the bowl mounting location: Minimum 3/4" Schedule 40 PVC.
- 3/4" Schedule 40 PVC water supply line
-

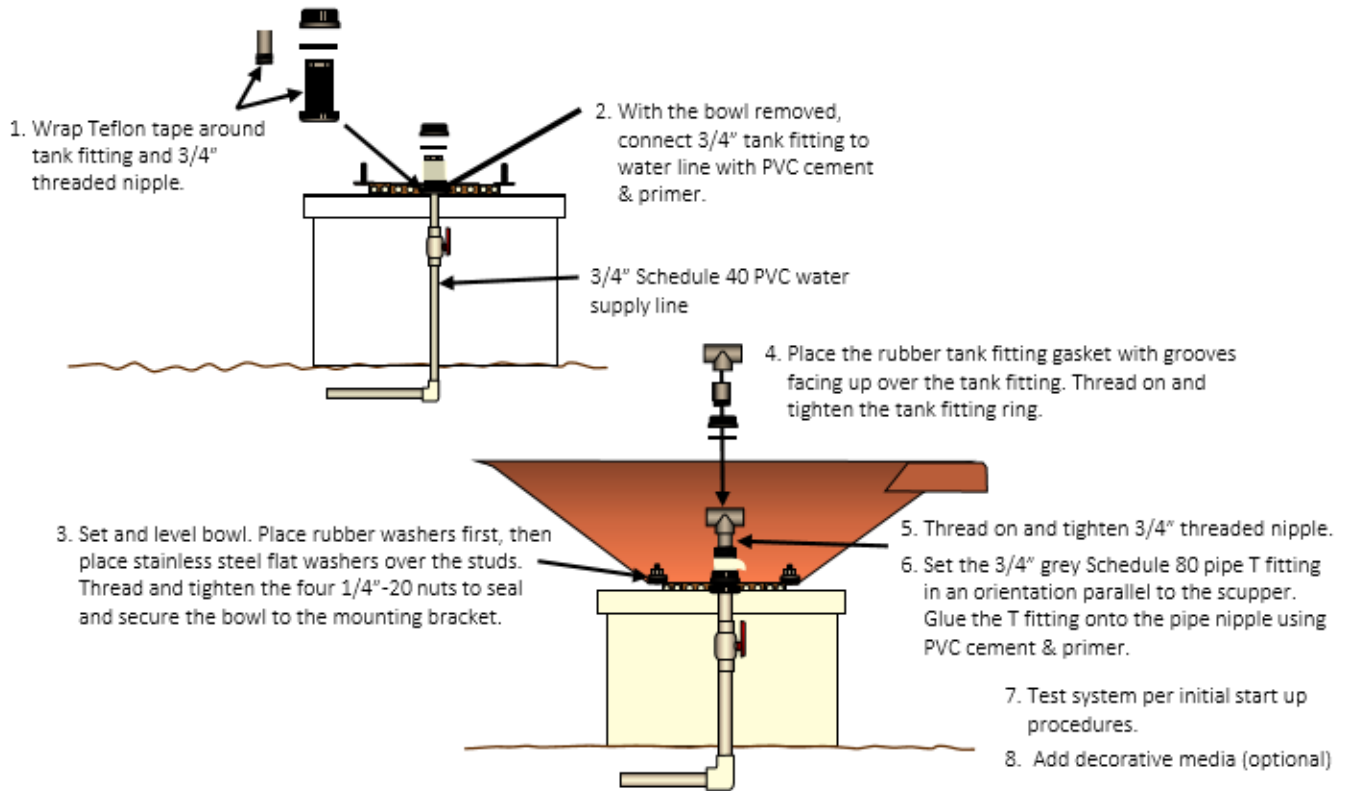
CAST STONE PLANTER ONLY/PLANTER & WATER BOWLS

Wrap all threads with Teflon seal tape

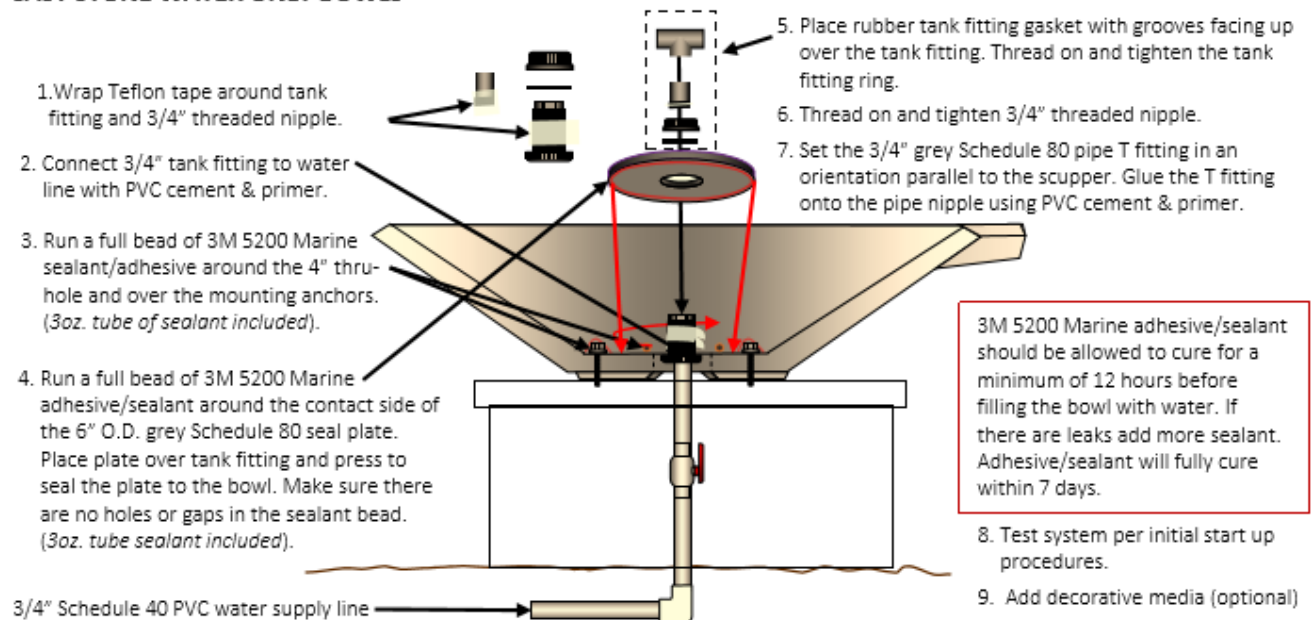
- Place the 4" ABS cleanout cap down into the 4" center hole of the bowl and mounting bracket. Use silicone to seal the cap to the inside of the bowl. Apply a coat of silicone sealant over the mounting anchors (not supplied).
 - Orient the PVC elbow toward the scupper. Use PVC cement & primer to glue the 3/4" PVC 90° elbow and 3/4" FIPT x 3/4" socket adapter to the inlet water line.
 - Connect 3/4" NPT plumbing kit to scupper insert.
 - Connect system ground wire to bond lug on scupper insert.
 - Fill and seal inside the 4" ABS cleanout cap around the water and drain tubes with silicon sealant.
 - Before filling with dirt, place a fine mesh screen over the drain tube to prevent debris from clogging the outlet.
 - Test system per initial start up procedures.
 - Add plant media
- Drain tube to drain above ground level out of the back side of the bowl mounting location: Minimum 3/4" Schedule 40 PVC.
- 3/4" Schedule 40 PVC water supply line
-

INSTALLATION GUIDE – BOWL CONNECTIONS

COPPER WATER ONLY BOWLS



CAST STONE WATER ONLY BOWLS



INSTALLATION GUIDE – BOWL CONNECTIONS



COPPER FIRE ONLY/FIRE & WATER BOWL

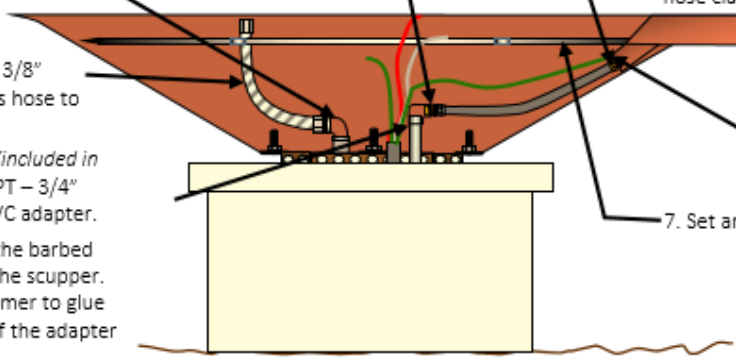
***NOTE: FIRE ONLY BOWLS** Omit water instructions
***NOTE: MANUAL IGNITION BOWLS** Omit electrical wiring instructions

1. Install a 1/2" NPT black steel 90° elbow fitting and a 1/2" x 3/8" NPT adapter. Product warranty voided if not installed properly inside the bowl and above the finish surface.
2. Connect the provided 3/8" corrugated flexible gas hose to supply line.
3. Connect 1/2" brass T (included in parts kit) to 1/2" MNPT – 3/4" socket Schedule 40 PVC adapter.
4. Orient the brass T so the barbed fittings point toward the scupper. Use PVC cement & primer to glue the 3/4" socket side of the adapter to the inlet water line.



Wrap all threads with Teflon seal tape

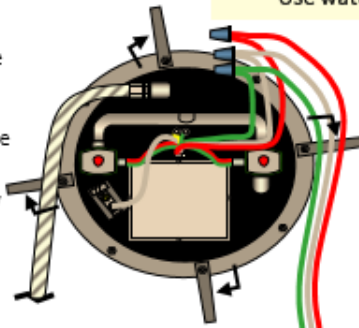
5. Connect 1/2" NPT plumbing kit to scupper insert. Tighten hose clamps.
6. Connect system ground wire to bond lug on scupper insert.
7. Set and level support plate.



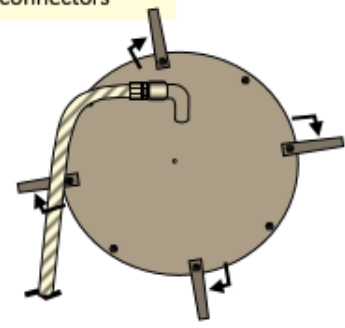
BURNER ASSEMBLY SET-UP

8. Open the four (4) support tabs attached to the burner plate to extend out at a right angle.
9. Tighten the nuts with the tabs in the extended position so the burner assembly will rest on the support plate.
10. Connect flexible gas hose to burner assembly
11. Connect wiring
 - Red to X1
 - White to X2
 - Green to ground

Use water tight wire connectors



Automated Burner Assembly

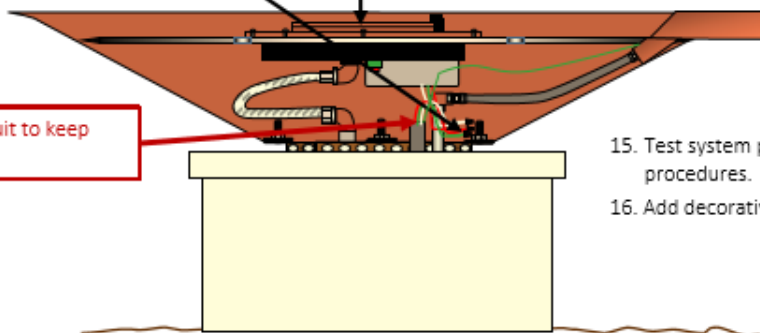


Manual Burner Assembly

12. Position wires as low as possible in the bowl to prevent damage caused by heat.

14. After making all connections lower burner assembly into bowl.

13. Seal electrical conduit to keep water out.



15. Test system per initial start up procedures.

16. Add decorative media.

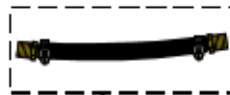
INSTALLATION GUIDE – BOWL CONNECTIONS



CAST STONE FIRE ONLY/ FIRE & WATER BOWL

***NOTE: Fire only bowls Omit water instructions**
***NOTE: Manual Ignition bowls Omit electrical wiring instructions**

1. Install a 1/2" NPT black steel 90° elbow fitting and a 1/2" x 3/8" NPT adapter. **Product warranty void if not installed properly inside the bowl and above the finish surface.**



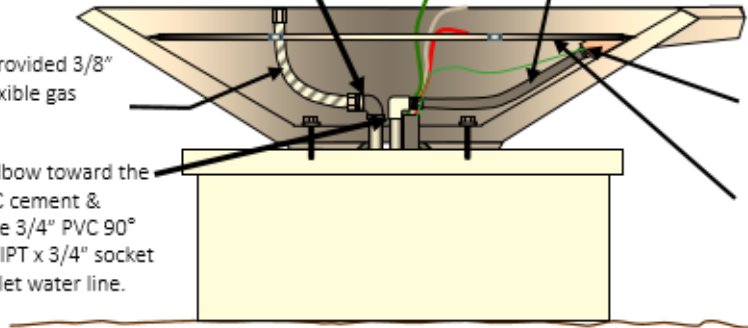
- *Wrap all threads with Teflon seal tape***
4. Connect 3/4" NPT plumbing kit to scupper insert.
 5. Tighten hose clamps

2. Connect the provided 3/8" corrugated flexible gas hose.

6. Connect system ground wire to bond lug on scupper insert.

3. Orient the PVC elbow toward the scupper. Use PVC cement & primer to glue the 3/4" PVC 90° elbow and 3/4" FIPT x 3/4" socket adapter to the inlet water line.

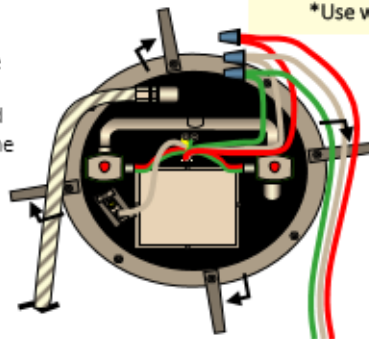
7. Set and level support plate.



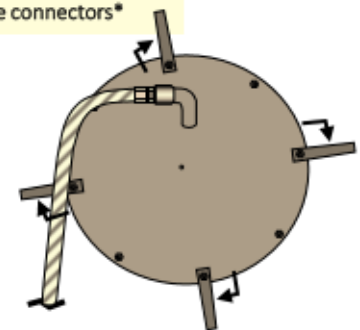
BURNER ASSEMBLY SET-UP

8. Open the four(4) support tabs attached to the burner plate to extend out at a right angle.
9. Tighten the nuts with the tabs in the extended position so the burner assembly will rest on the support plate.
10. Connect flexible gas hose to burner
11. Connect wiring
 - Red to X1
 - White to X2
 - Green to ground

Use water tight wire connectors



Automated Burner Assembly



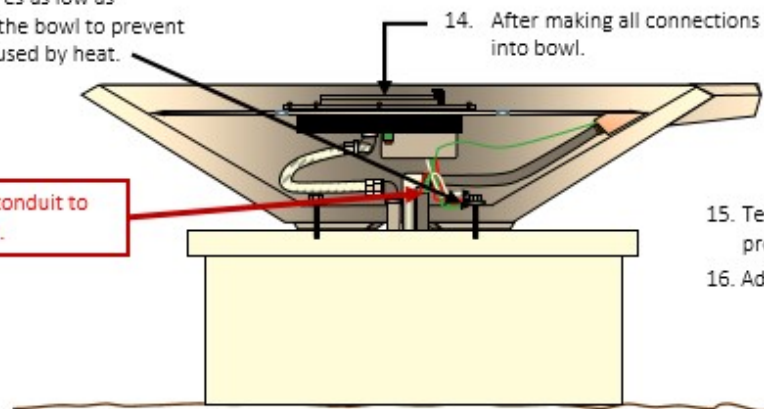
Manual Burner Assembly

12. Position wires as low as possible in the bowl to prevent damage caused by heat.

14. After making all connections lower burner assembly into bowl.

13. Seal electrical conduit to keep water out.

15. Test system per initial start up procedures.
16. Add decorative media.



OPERATION & SAFETY

INITIAL START UP PROCEDURES



PLANTER BOWL

- Cover the drainage hole with a mesh screen so debris and dirt do not fall into the drainage tube.
- Fill with dirt and use as any normal planter.

ALL WATER BOWLS

- Open water valve.
- Turn on water source.
- Adjust valve to desired flow rate of 10 – 15 GPM.
- Adjust valves per bowl to balance flow on multiple bowl set-ups.
- Turn off water valve or water source.
- Check for leaks at base of bowl and all fitting connections.

ALL FIRE BOWLS WARNING:

Fire bowls are for outdoor use only. Use only fire approved decorative media to cover the support plate and burner assembly. High temperature rated lava, tumbled lava/ceramic stone and fire glass are all accepted media. Fireside Expressions offers lava rock and fire glass that is approved for fire applications. For optimal performance, 2" – 4" sized lava rock and 1/4" – 1/2" fire glass is recommended. Use caution when using other suppliers' media as pieces may pop or explode when exposed to heat.

NOTE: Install decorative media on top of the support plate and burner assembly. Be sure the decorative media is not packed too tightly around the pilot box. For proper ventilation and flame sensing both sides of the pilot box need to be kept clear of decorative media.

NOTE: Do not use fire glass with propane systems. For natural gas systems, use of a mesh screen is necessary to maintain fire glass above the support plate. When using lava rock smaller than 1/2" use of a mesh screen is necessary. For proper ventilation and flame sensing the top of the pilot box needs to be kept clear of decorative media.

NOTE: Do not add decorative media until after all testing and flame height adjustments are complete.

FIRE BOWL – MANUAL

- Purge air from gas line at each bowl using the following instructions:
 - Close manual gas valve & disconnect gas hose from burner assembly
 - Open manual gas valve and hold gas hose outside bowl while purging air
 - When you smell gas, close manual gas valve and reconnect gas hose to burner assembly
 - Make certain all gas connections are tight and that there are no leaks
- Test and balance flame height
 - Open the manual gas valve near the fire bowl to turn on the flow of gas
 - Use stick lighter to ignite gas and light flame
 - Check flame height and make adjustments at the gas valve to achieve a balanced flame across all bowls
 - Do not adjust manual gas valve too low as this can cause the flame to be unstable resulting in possible flame out
 - To ensure a stable flame, maintain the required gas pressure and flow to the burner assembly
- Add decorative media after all testing and adjustments are complete



FIRE BOWL – AUTOMATED

- Purge air from gas line at each bowl using the following instructions:
 - Close manual gas valve & disconnect gas hose from burner assembly
 - Disconnect X1 & X2 wires at the transformer panel for each bowl. For propane gas systems, leave propane adder connected
 - Open manual gas valve and hold gas hose outside bowl while purging air
 - When you smell gas, close gas valve and reconnect gas hose to burner assembly
 - Reconnect X1 & X2 wires at the transformer panel for each bowl
 - Make certain all gas connections are tight and that there are no leaks
- Spark ignition check:
 - Close the manual gas valve
 - Using the control switch, turn on the power to the bowls
 - At each burner assembly, check that the spark electrode is arcing across to the pilot hood. You should be able to hear and see the electrode spark. If there is no spark, make sure that the burner assembly is receiving 24 VAC from the control panel
 - Once a spark has been verified, turn off the power to each bowl using the control switch
- Test and balance flame height:
 - Open manual gas valve
 - Using the control switch, turn on the power to the bowls
 - Check flame height and make adjustments at the manual gas valve to achieve a balanced flame across all bowls
 - Do not adjust manual gas valve too low as this can cause the flame to be unstable resulting in possible flame out
 - To ensure a stable flame, maintain the required gas pressure and flow to the burner assembly
- Add decorative media after all testing and adjustments are complete

BASIC SYSTEM OPERATION

Caution: Before you turn on a fire bowl make sure that the area is clear of people, animals or any objects that are combustible. If you smell gas or there are other indications of a gas leak, immediately turn off the manual gas valve, leave the area and do not operate the fire bowl. Immediately call your utility gas supplier to inspect the fire bowl.

FIRE BOWL – MANUAL

- Open the manual gas valve near the bowl to turn on the flow of gas
- Use a stick lighter to light flame
- Check flame height and make adjustments at the manual gas valve to achieve a balanced flame across all bowls
- Do not adjust manual gas valve too low as this can cause the flame to be unstable resulting in possible flame out
- To ensure a stable flame, maintain the required gas pressure and flow to the burner assembly
- Do not store or use gasoline or other flammable materials in the vicinity of the bowl
- Do not leave flame on while unsupervised
- Do not operate in windy or rainy conditions
- Bowl should be operated only by a responsible adult
- Before any inspection of the bowl, always turn off gas and make sure the bowl is cool

- If you experience problems with the bowl, call a licensed contractor
- To turn off the bowl, close the manual gas valve to the fully closed position



FIRE BOWL – AUTOMATED

- To turn on bowl, use the automated control system
- Check flame height and make adjustments at the manual gas valve to achieve a balanced flame across all bowls
- Do not adjust manual gas valve too low as this can cause the flame to be unstable resulting in the system cycling on/off because the sensor cannot read the flame properly
- To ensure a stable flame, maintain the required gas pressure and flow to the burner assembly
- Do not store or use gasoline or other flammable materials in the vicinity of the bowl
- Do not leave flame on while unsupervised
- Do not operate in windy or rainy conditions
- Bowl should be operated only by a responsible adult
- Before any inspection of the bowl, always turn off gas and make sure the bowl is cool
- If you experience problems with the bowl, call a licensed contractor
- To turn off bowl, use the automated control system

TROUBLE SHOOTING

Prior to beginning any trouble shooting procedures, ensure all water, gas and electrical components of the system are off. **All procedures should be performed by a licensed contractor.**

While trouble shooting the unit, look for heat or water damage to the burner assembly which may be caused by improper installation or inadequate ventilation and drainage.

No spark at the pilot box

- Remove decorative media from the pilot box area. Look for small pieces obstructing the pilot box.
- If still no spark, confirm 24VAC output from the transformer panel by measuring the voltage over terminals X1 to X2. At the burner assembly, measure the wire leads at each bowl to verify there is no short in the wire runs.
- If there is voltage from the transformer panel, but no spark, check for proper wire connection at the pilot assembly. If still no spark, the ignition module or pilot assembly may need to be replaced.
- If there is no voltage from the transformer panel, check the 15AMP GFI circuit breaker, and replace circuit breaker as needed. Confirm there is 120VAC at the transformer panel over terminals L and N.
- If 120VAC input to the transformer is confirmed and there is no 24VAC output from the transformer panel, the transformer panel may need to be replaced.

Spark but no pilot light

- Remove decorative media from the pilot box area. Look for small pieces obstructing the pilot box.
- The pilot valve may not be opening. Turn on burner assembly and listen for the pilot solenoid to energize and open the valve.
- If not energizing, the pilot solenoid may need to be replaced
- If the pilot solenoid is energizing, confirm by sound or smell if gas is coming out of the pilot box. If needed, use a lighter to help determine if gas is coming out of the pilot box.
- If no gas at the pilot box, check that the gas is turned on.

- The pilot orifice may be plugged/blocked. If so, remove debris and verify gas flow. If pilot will still not light, the pilot assembly may need to be replaced.



Burner assembly cycles on/off

- Moisture can be trapped in the decorative media. As a result, steam from the moisture can cause the burner assembly to cycle on and off until all the moisture has dissipated.
- If the wind is causing an unstable flame or the flame goes out, rotate burner assembly such that the pilot box is blocked from the prevailing wind.
- If the problem continues, remove decorative media from the pilot box area and burner ring. Retest the flame.
- If working, reapply the media in a thin layer over burner ring and loosely around the pilot box
- Check gas pressure. If pressure is too low or high, it can result in an unstable flame, which can cause the burner assembly to cycle on and off. Check with gas supplier that the proper regulator is installed.
- Check gas flow. If flow is too low or high, it can result in an unstable flame, which can cause the burner assembly to cycle on and off. Regulate gas flow by adjusting the manual gas valve. If problems persist, check with gas supplier that the proper regulator is installed.

Burner assembly will not turn on

- Make sure the pool control system switches are functioning properly (batteries, transmitter signal, etc.)
- Electrical circuit fault. Check for loss of power.
- No gas supply. Check that all manual gas valves are in the proper position. If applicable, make sure the propane tank is full and that the propane adder is energized.
- Unit may overheat due to improper ventilation. Clear ventilation passageways. Check for heat damage, replacement parts may be needed.
- Failure of solenoid valve(s) may be indicated by a buzzing noise, parts may need to be replaced.
- Excessive weather conditions such as rain, wind, snow and dust may affect operation. Wait for weather conditions to clear. Clear debris and resolve moisture before attempting to operate the unit again.

Pilot light comes on but not the main burner

- Confirm that all manual gas valves are in the proper position.
- Check gas pressure. If pressure is too low or high, it can prohibit the main burner from igniting. Check with gas supplier that the proper regulator is installed.
- Check gas flow. If flow is too low or high, it can prohibit the main burner from igniting. Check with gas supplier that the proper regulator is installed.
- Failure of solenoid valve(s) may be indicated by a buzzing noise, parts may need to be replaced.
- Remove decorative media from the pilot box area and burner ring. Retest the flame.

Main burner or pilot light does not shut off

- Make sure the pool control system switches are functioning properly (batteries, transmitter signal, etc.)
- Remove solenoid coil and clean inside of the solenoid

For unresolved issues, call service provider.

GENERAL CARE & MAINTENANCE



PLANTER BOWLS

- Periodically check that the drainage tube is not clogged and can still drain adequately.

WATER BOWLS

- Periodically clean out debris that collects inside the bowl.
- Periodically check the bowl for leaks at the base of the bowl.
- Check that all water connections are tight and sealed.

FIRE BOWLS

- Periodically clean the burner assembly with a wet cloth to remove carbon build-up.
- Periodically inspect the underside of the burner assembly for any signs of damage from excessive heat; i.e. melted wires, carbon build up, warped parts, etc.
- Check that all gas connections are tight, clean and sealed.
- Keep base of bowl and ventilation passageways clear of debris.

CLEANING AND CARE FOR OIL-RUBBED HAMMERED COPPER BOWLS

Hammered copper bowls exposed to the outdoor environment and pool chemicals can patina over time. To restore the original finish, follow these cleaning instructions.

Items needed:

- Grade #000 steel wool
- 500 grit black wet sandpaper
- Dish soap
- A multi-surface wax
- Clean soft cloth: use clean microfiber or soft lint free rags
- Water hose or Bucket for cleaning solution

Cleaning instructions:

- Mix dish soap and water in a bucket.
- Using the grade #000 steel wool and soapy water, clean the outside of the bowl.
- Wet the 500 grit sandpaper and lightly sand the bowl.
- After sanding, rinse the bowl with clean water. Make sure to spray off the decking and other nearby surfaces to prevent any staining.
- Apply multi-surface wax to the bowl in a circular motion and wipe off with a clean cloth.

CLEANING, CARE AND SEALING FOR CAST STONE BOWLS

The cast stone bowl comes with a hand applied penetrating sealer. Over time the bowl may become dirty or the sealant may fade due to exposure to the outdoor elements. To clean or restore the finish, follow the instructions outlined below. It is recommended that the bowl be sealed every 1-2 years to protect and maintain the finish.

Items needed:

- 220 grit sandpaper
- Non-scratch scrubbing pad
- Clean soft cloth; use clean microfiber or soft lint free rags
- Mild cleaner, such as dish soap or window cleaner. Avoid abrasive cleaners such as bleach or ammonia-based products
- Water hose
- Bucket for cleaning solution and rinse water
- Rubber/latex gloves for sealer application



Cleaning instructions:

- Clean the bowl using a mild cleaner and soft cloth.
- If there is persistent dirt or a haze on the bowl, a non-scratch scrubbing pad or 220 grit sandpaper can be used to clean the surface.
- Do a final wipe down with a clean, wet cloth.

Sealing instructions:

- Clean the bowl following the instructions above. Allow enough time for the bowl to fully dry before applying the sealer.
- Following instructions included with cast stone Sealant Kit. The sealer is a 1-part penetrating sealant.
- Put on rubber/latex gloves. Apply the sealer in a circular motion with a microfiber cloth, ensure the surface is wiped clean and there are no drips, runs or streaks on the finish.
- We recommend 2-3 coats, allowing 15 minutes between coats. Allow more time at cooler temperatures.

REPAIR FOR CAST STONE BOWLS

If the cast stone bowl has been chipped or damaged, the finish can be repaired and restored. Please call Fireside Expressions at 1-888-986-1535 to purchase a Cast Stone Repair Kit.

Items needed in addition to the Cast Stone Repair Kit:

- 220 grit sandpaper
- Scotch-Brite® pad
- Blue painter's tape
- Putty knife
- Mixing stick
- Rubber/latex gloves

Repair instructions:

- Clean the bowl following the cast stone cleaning instructions above.
- Use blue painter's tape to mask off the area that is to be repaired.
- Following mixing instructions included with Cast Stone Repair Kit. The paste should have the consistency of toothpaste.
- Apply the paste with the putty knife or by hand to the damaged areas. Leave the paste high as it will shrink as it dries. **NOTE:** The paste needs to have a raised profile when dry so it can be sanded smooth and flush with the finish surface.
- Let dry for at least 1-2 hours. Allow more time at cooler temperatures.
- Once dry, sand smooth and flush with the 220 grit sandpaper.
- Clean the bowl following the cast stone cleaning instructions above.
- Reseal the repaired area of the bowl following the cast stone sealing instructions above.
NOTE: We recommend resealing the whole bowl to achieve a more uniform finish.

CLEANING AND CARE FOR CAST STONE BOWL POLISHED COPPER SCUPPER INSERTS AND SPILLWAYS

Copper features are made with a high quality polished finish. It is the natural process for copper exposed to the elements or pool chemicals to patina due to oxidation. The copper may turn brown, green, blue or even purple. This natural process will continue to change over time. If you desire to keep the original copper appearance, you can do so by following the copper cleaning instructions below.

Items needed:

- Soft bristle brush
- Scotch-Brite® pad
- Dish soap



- Solution of 8 oz. of white vinegar, 2 tsp of salt, and 1 oz. of lemon juice
- Buckets for cleaning solutions
- Water hose
- A multi-surface wax protectant (spray version)
- Clean soft cloth; use clean microfiber or soft lint free rags

Cleaning instructions:

1. To clean light patina stains mix dish soap cleaning solution with water. Use a rag with solution to wipe away light patina and excess dirt from the polished copper surface.
2. To remove stains and heavier patina, mix a solution of 8 oz. of white vinegar, 2 tsp of salt and 1 oz. of lemon juice in a mixing bucket. Apply the cleaning solution to the surface using a rag. Allow 1-3 minutes to let the solution penetrate the copper. If stains persist, increase concentration of solution by adding more salt and lemon juice.
3. Wipe off the cleaning solution.
4. Use a soft bristled brush or a fine Scotch-Brite® pad to clean the patina from the polished copper surface. Start with very light pressure and work in a circular motion. (It is ok for the polishing utensil to be wetted with cleaning solution).
5. Wipe the polished copper surface with a clean dry rag. With a clean wet rag immediately wipe and rinse any remaining cleaning solution from the polished copper surface. Be careful not to allow dirty water to run down the wall, into the pool or on the deck. Take necessary precautions to minimize the amount of run-off water that may stain or damage any nearby materials.
6. Wipe dry and allow the surface to dry.
7. Spray the polished copper surface slightly with the multi-surface wax and wipe off immediately with a cloth. Do not allow the surface wax to dry before wiping.
8. Repeat all steps as needed to maintain the desired look of the polished copper surface.

SEASONAL CARE

Seasonal shut down of the copper product is recommended if there is a period of the year you do not use your features, or if you live in an area where dust, the wind, snow or freezing conditions occur. In cold climates, you may need to cover the features to prevent damage from ice and snow. Additionally, summer storms can deposit dust and debris on the functional surfaces. Always clean out the features before use to prevent any debris from affecting the functionality of the system. Make sure water valves leading to water features are off or the pump system is disabled. Please contact your pool care professional for assistance if needed.