



CONCRETE WAVE

OWNER'S GUIDE AND INSTRUCTION MANUAL



CONCRETE WAVE

IMPORTANT PRODUCT WARNINGS



DANGER FIRE OR EXPLOSION HAZARD

If you smell gas:

- Shut off gas to the appliance.
- Extinguish any open flame.
- If odor continues, leave the area immediately.
- After leaving the area, call your gas supplier or fire department.
- Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.



WARNING

Do not store or use gasoline, or other flammable vapors and liquids, in the vicinity of this or any other appliances.

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.



For Outdoor Use Only.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier.



If the information in this manual is not followed exactly,
a fire or explosion may result causing property damage, personal injury or loss of life.



DANGER! CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

Never use this appliance in an enclosed space such as a camper, tent, car or home.

INSTALLER: Leave this manual with the appliance. **CONSUMER:** Retain this manual for future reference.
The installer is responsible for using the correct fuel line sizing and/or regulation to provide gas within the specified minimum and maximum gas inlet pressures of the fire feature.



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CERTIFIED UNITS

Compliance with the following codes:

1. 2021, 2018, 2015, 2012, and 2009 International Fire Code® (IFC)
2. 2021, 2018, 2015, 2012, and 2009 International Fuel Gas Code® (IFGC)
3. 2018, 2015, 2012 and 2009 Uniform Mechanical Code® (UMC)*
4. 2020, 2015 and 2010 Natural Gas and Propane Installation Code**

**Uniform Plumbing Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials*

***Copyrighted publication of Canadian Standard Association*

Compliance with the following standards:

1. ANSI Z21.97/CSA 2.41-2017 Outdoor Decorative Gas Appliances

Product: Outdoor Decorative Gas Fire Pit and Fireplaces

| | | | |
|---|--|---|---|
| <p>MATCH LIT: Model # CFB60 NG/LP as match lit Model # CFB120 NG/LP as match lit Model # CFB180 NG/LP as match lit Model # CFB240 NG/LP as match lit Model # CFB290 NG/LP as match lit Model # CFBL90 NG/LP as match lit Model # CFBL110 NG/LP as match lit Model # CFBL130 NG/LP as match lit Model # CFBL150 NG/LP as match lit Model # CFBL190 NG/LP as match lit Model # CFBL210 NG/LP as match lit Model # CFBL250 NG/LP as match lit Model # CFBL270 NG/LP as match lit Model # CFBL320 NG/LP as match lit Model # CFB60 2XL NG/LP as match lit Model # CFBH120 NG/LP as match lit Model # CFBH160 NG/LP as match lit Model # CFBH200 NG/LP as match lit Model # CFBH240 NG/LP as match lit Model # CFBH260 NG/LP as match lit Model # CFBH300 NG/LP as match lit Model # CFBH340 NG/LP as match lit Model # CFBH420 NG/LP as match lit Model # CFBT110 NG/LP as match lit Model # CFBT170 NG/LP as match lit Model # CFBT230 NG/LP as match lit Model # CFBT290 NG/LP as match lit Model # CFBT350 NG/LP as match lit Model # CFBT410 NG/LP as match lit Model # CFBT470 NG/LP as match lit Model # CFBO180 NG/LP as match lit Model # CFBO280 NG/LP as match lit Model # CFBO360 NG/LP as match lit Model # WTV40 NG/LP as match lit Model # WTV60 NG/LP as match lit Model # WTV120 NG/LP as match lit Model # WTV120 NG/LP as match lit Model # WTV180 NG/LP as match lit Model # WTVES120 NG/LP as match lit Model # WTVES180 NG/LP as match lit Model # WT230 NG/LP as match lit Model # WTV350 NG/LP as match lit</p> | <p>3V BATTERY OPERATED UNITS Model # CFB60 NG/LP with 3VIK Model # CFB120 NG/LP with 3VIK Model # CFB240 NG/LP with 3VIK Model # CFBL90LP NG/LP with 3VIK Model # CFBL110LP NG/LP with 3VIK Model # CFBL130LP NG/LP with 3VIK Model # CFBL150LP NG/LP with 3VIK Model # CFBL190LP NG/LP with 3VIK Model # CFBL210LP NG/LP with 3VIK Model # CFBL250LP NG/LP with 3VIK Model # CFB60 2XL NG/LP with 3VIK Model # CFBH120LP NG/LP with 3VIK Model # CFBH160LP NG/LP with 3VIK Model # CFBH200LP NG/LP with 3VIK Model # CFBH240LP NG/LP with 3VIK Model # CFBH260LP NG/LP with 3VIK Model # CFBH300LP NG/LP with 3VIK Model # CFBH340LP NG/LP with 3VIK Model # CFBT110LP NG/LP with 3VIK Model # CFBT170LP NG/LP with 3VIK Model # CFBT230LP NG/LP with 3VIK Model # CFBT290LP NG/LP with 3VIK Model # CFBT350LP NG/LP with 3VIK Model # CFBT410LP NG/LP with 3VIK Model # CFBT470LP NG/LP with 3VIK Model # CFBO180 NG/LP with 3VIK Model # CFBO280 NG/LP with 3VIK Model # CFBO360 NG/LP with 3VIK Model # WTV60 NG/LP with 3VIK Model # WTV120 NG/LP with 3VIK Model # WTV180 NG/LP with 3VIK</p> <p>24 VOLT STANDARD ELECTRONIC IGNITION SYSTEMS - 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|---|--|---|---|

High Capacity (HC) ignitions may be substituted for Standard Capacity (SC) ignitions.



CONCRETE WAVE

GENERAL INFORMATION

This Owner's Guide and Instruction Manual contains critical information for the safe installation and operation of your Warming Trends™ fire feature. **You must read this manual in its entirety prior to installation and/or operation. Failure to follow these instructions may result in property damage, personal injury, or death.**

**WARNING:
HOT! DO NOT TOUCH.
SEVERE BURNS MAY RESULT.
CLOTHING IGNITION MAY RESULT.**

- Young children should be carefully supervised when they are in the area of the appliance.
- Clothing or other flammable materials should not be hung from the appliance or placed on or near the appliance.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

WARRANTY REQUIREMENT:

When not in use, appliance must be covered at all times. Failure to cover the fire feature will void the warranty.

We strongly recommend our products be installed and serviced by locally licensed professionals. It is the installer's responsibility to read the Installation Manual thoroughly before installing or servicing this equipment to ensure a safe installation and to educate the end user as to proper operation. Warming Trends™ is not responsible for damage due to improperly installed or operated units. Installers must leave this manual with the end user. Instructions are updated as needed, and it is the installer or owners' responsibility to periodically review Warming Trends® website for applicable updates (www.Warming-Trends.com.) Please keep this manual with your important papers.

WARNING:

Do not use appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

WARNING:

DO NOT USE OXYGEN MIXERS WITH YOUR WARMING TRENDS® APPLIANCE. Mixers may create leakage in the cavity of the pit and could cause fire or explosion which could cause property damage, personal injury, or death.

WARNING:

Product is not intended to be used to burn wood or other combustibles. Solid fuels shall not be burned in the appliance. Do not put any combustible materials into the fire pit.

WARNING:

Only use Liquid Propane or Natural Gas as specified for your Warming Trends® appliance or burner. Do not use an alternative fuel.



CODE REQUIREMENTS

It is the responsibility of the installer to consult with the local municipality and to **FOLLOW ALL LOCAL CODES** concerning the installation and operation of the fire feature.

When the appliance is for connection to a fixed piping system, the installation must conform with local codes, or in the absence of local codes with the National Fuel Gas Code, ANSI Z223.1-NFPA54; National Fuel Gas and Propane Installation Code, CSA B149.1; or Propane Storage and Handling Code, CSAB149.2, as applicable.

For systems with electronic ignitions:

The appliance when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70; or the Canadian Electrical Code, CSA C22.1, if applicable.

MINIMUM AND MAXIMUM GAS INLET PRESSURES

The installer is responsible for using the correct fuel lines and/or regulation to provide gas to the fire feature within the specified minimum and maximum gas inlet pressures below:

Gas Inlet Pressures

| MATCH LIGHT | Minimum | Maximum |
|----------------------------|-------------------------|-------------------------|
| Natural Gas | 3.5" W.C. (.8718 Kpa) | 7.0" W.C. (1.7436 Kpa) |
| Liquid Propane | 11.0" W.C. (2.7399 Kpa) | 13.0" W.C. (3.2381 Kpa) |
| | | |
| SPARK IGNITION | Minimum | Maximum |
| Natural Gas | 3.5" W.C. (.8718 Kpa) | 7.0" W.C. (1.7436 Kpa) |
| Liquid Propane | 11.0" W.C. (2.7399 Kpa) | 13.0" W.C. (3.2381 Kpa) |
| | | |
| ELECTRONIC IGNITION | Minimum | Maximum |
| Natural Gas | 3.5" W.C. (.8718 Kpa) | 14.0" W.C. (3.4872 Kpa) |
| Liquid Propane | 8.0" W.C. (1.9927 Kpa) | 14.0" W.C. (3.4872 Kpa) |



LOCATION CONSIDERATIONS

All appliances, match lit kits, spark ignition, and electronic ignition systems are designed and intended for outdoor use only. For electronic ignition models, there must be an electrical shutoff (wall switch or breaker) on adjacent structure to allow for emergency shutdown and maintenance. Distance may be determined by local code. All appliances must have a gas shutoff located outside of the appliance to allow for emergency shutoff and maintenance. Select a location where the appliance can be attended during operation. Never leave an operating appliance unattended or by someone not familiar with its operation or emergency shutoff locations. Appliances may create very high temperatures - combustibles must be located far enough away that there is no risk of ignition.

FIRE PIT CLEARANCES

- 36" horizontally from any combustible structure or materials.
- Overhead clearance should be a minimum of 120" from combustible structures or materials.
- Choose a location that allows easy access for installation and maintenance of the fire feature.
- Pick a location that allows sufficient horizontal room to enjoy the appliance while allowing a safe distance from the heat and flame.
- Always consult with local municipality regarding any local code requirements.
- See Clearance Diagram on page 8.

For models with electronic ignitions, the control/valve box must be above grade with adequate drainage to prevent water exposure to the controls inside the box. Additionally, the weight of the burner system must not be supported by or rest upon the control valve/box. A plate, pan or other surface should be used to support the weight of the burner system.

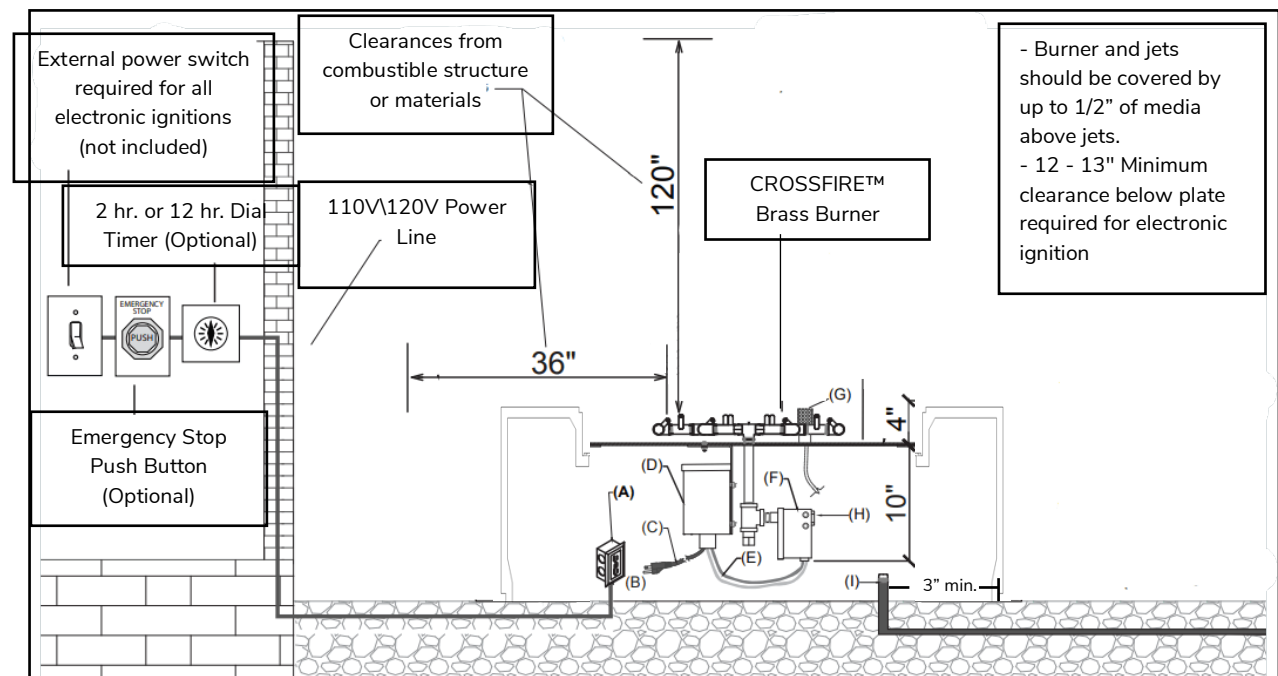


FIRE PIT CLEARANCES DIAGRAM

Vertical clearance of 120" from burner to combustible structure or materials is required. Horizontal or lateral clearance of 36" between edge of burner and combustible structure or materials is required.

Fire Pit Cavity Components

- (A) GFCI Outlet
- (B) Location for remote receiver (optional)
- (C) Pigtail plug included for easy installation
- (D) Electronics Box (Houses 120V - 24V Transformer)
- (E) 24V Power from Transformer to Gas Valve
- (F) Gas Valve / Control Box
- (G) Pilot Assembly
- (H) Gas Valve Supply IN
- (I) Gas Stub from source (3"-6" tall and 3" minimum from outside edge)





GENERAL INSTALLATION INSTRUCTIONS

Use only joint compound, thread sealant, or tape specific to gas use that is resistant to all gases. Apply joint compound, thread sealant or tape to all male pipe fittings only and **DO NOT USE ON FLARED END OF FLARED FITTINGS**. Be sure to tighten every joint securely.

Ignition systems are recommended on any burner over 300K BTUs. If you are lighting manually be sure to maintain a minimum safe distance to avoid property damage, personal injury, or death. Please refer to match lit instructions.

1. Verify gas supply matches burner type.
2. Verify gas inlet pressure is within the specified minimum and maximum pressures. Consult Gas Inlet Pressures on page 6.
3. Purge gas lines of air, water and debris.
4. Perform all leak tests with leak detector or leak reactant on main gas supply and repair leaks as necessary. Turn off gas supply.
5. For models that include electronic ignitions, be sure to have a qualified electrician install proper power supply following all local codes.
6. Inspect flex line(s) for punctures or breaks in line(s).
7. Make sure the key turns in the key valve before installing. Use only your hand to turn the gas key valve. Never use tools. If the key valve will not turn by hand, don't try to repair it. Force or attempted repair may cause a fire or explosion.
8. Refer to Connection Diagrams starting on page 10 for applicable gas connections.
9. Position burner safely with access to all gas connections for testing. Position burner to allow sufficient clearance from the fire pit sides and capstone to avoid damage.
10. Turn on gas supply to perform repeat leak tests on main gas supply and all connections to appliance and repair as needed.
11. Do not use appliance if there is evidence of leaking gas. If leak is suspected, turn off main gas supply immediately. For appliances for use with a fixed fuel piping system and equipped with an appliance gas pressure regulator, the appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressure in excess of ½ psi (3.5kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 Kpa).
12. Ignite burner. See applicable ignition instructions within Operating Instructions, page 20.
13. Electronic ignitions can either be hard wired into main power supply or plugged into a location-specific outlet/receptacle per local codes. **The electrical supply must be connected to an ON/OFF switch that is external to the pit.** Remote controls, emergency stops, and dial timers are optional add-ons.
14. Once appliance is lit, perform leak test on all gas connections and repair as needed.
15. Turn off appliance and allow to cool.
16. Set appliance into properly constructed, level, non-combustible enclosure. The enclosure must be on a stable surface. The weight of the appliance must be supported by the plate or pan and not by any control box or gas valve. Control boxes and gas valves must be above grade with adequate drainage to prevent water damage. Installer is responsible for making sure there is enough space in the cavity for any electronics and piping. **The lower cavity of**



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- the enclosure cannot be filled with any material (i.e. gravel, crushed rock, concrete, etc).**
17. Venting is required to avoid heat damage to internal components and to allow airflow in case of gas pooling. **DO NOT** block vent holes.
 18. Only use fire rated media (glass, lava rock, log sets, etc.) approved for use with high temperatures that have been manufactured for specific use in fire features. Never use any material for media that is non-porous and holds moisture such as gravel, pebbles, river rock, etc. Such material, when heated, may cause the trapped moisture to boil, fracture unexpectedly and/ or explode and which could cause personal injury, damage or death.
 19. To avoid dust and clogs getting into the system, do not dump the media over the burner. Place the media onto the plate or pan. **Burner should be covered by approved media up to ½” above the jets. Media may be positioned so that jet tips or barrels are visible. Excessive media coverage may cause back pressure and dangerous pooling of gas which can result in explosion which could cause property damage, personal injury, or death.**
 20. Do not cover the ignition pilot assembly more than halfway with any form of media.
 21. Complete final verification of correct operation and lighting.
 22. Review instruction manual with end user and instruct end user not to change/modify fire pit or media in any way.



WARNING:

Improper installation, adjustment alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to the owner's information manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency, or the gas supplier.



WARNING:

Do not store or use gasoline, or other flammable vapors and liquids, in the vicinity of this or any other appliances.

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.



Leave this Connection Diagram with end user.

MATCH LIT SYSTEM CONNECTION DIAGRAMS

60K - 249K BTU Systems

60K - 120K with FLKV12 (Follow steps 1 - 6)

121K - 249K with FLKV34FIT180 (Follow steps 1 - 6, including 3A)

1. Locate FLKV12 (or FLKV34FIT180)

Parts include Whistle-Free Flex Line, key valve, escutcheon plate, keys, and FIT180 (FLKV34FIT180 ONLY)



3" Key



12" Key



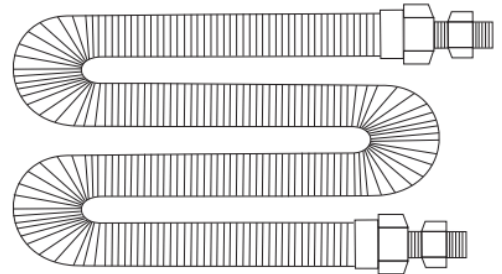
Escutcheon



Key Valve



FIT180 Kit: 1/2" x 2" Nipple
Included with FLKV34FIT180 ONLY



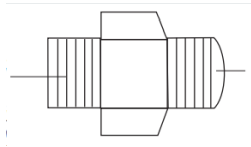
Whistle-Free Flex Line

2. Remove Flared Fittings from Whistle-Free Flex Line

(FLKV12 and FLKV34FIT180)

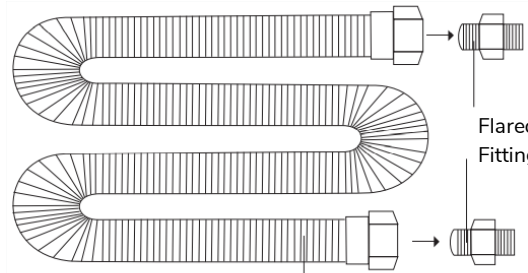
Removing flared fittings first makes installation easier.

Thread sealant is applied to this end only throughout instructions



Flared End

Flared Fitting

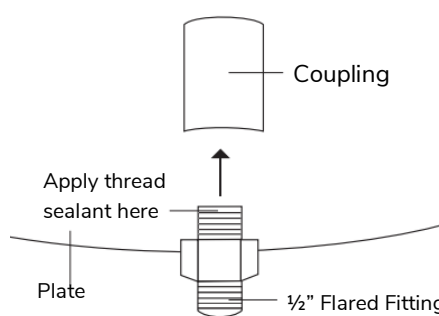


Flared Fitting

Whistle-Free Flex Line

3. Connect to Coupling

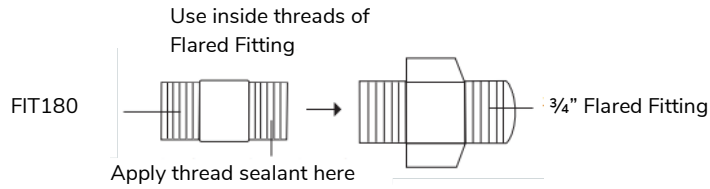
(FLKV12) Connect one of your 1/2" Flared Fittings removed in Step 2 to the 1/2" coupling located on the bottom of the aluminum plate with flared end on bottom. Tighten.



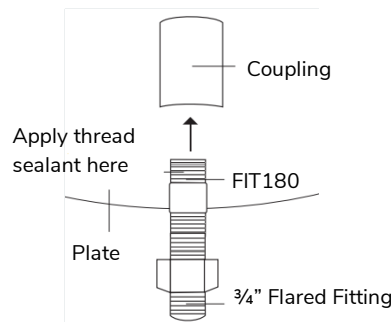


3A. Connect to FIT180, then to Coupling

(FLKV34FIT180) Connect one 3/4" Flared Fitting removed in Step 2 to FIT180 fitting provided by inserting FIT180 into interior threads of the Flared Fitting. Tighten.

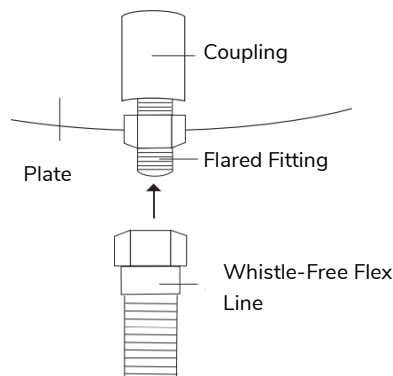


Then, connect the FIT180 fitting into the coupling located on the bottom of the aluminum plate. Tighten.



4. Connect Whistle-Free Flex Line

(FLKV12 and FLKV34FIT180) Connect the Whistle-Free Flex Line to the Flared Fitting previously attached to the coupling on the bottom of the aluminum plate.

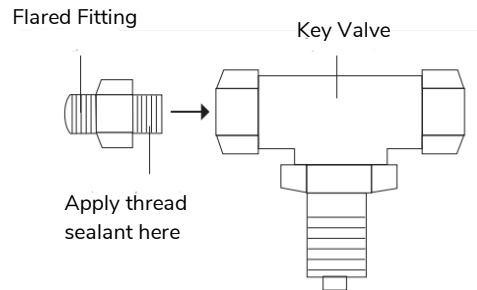




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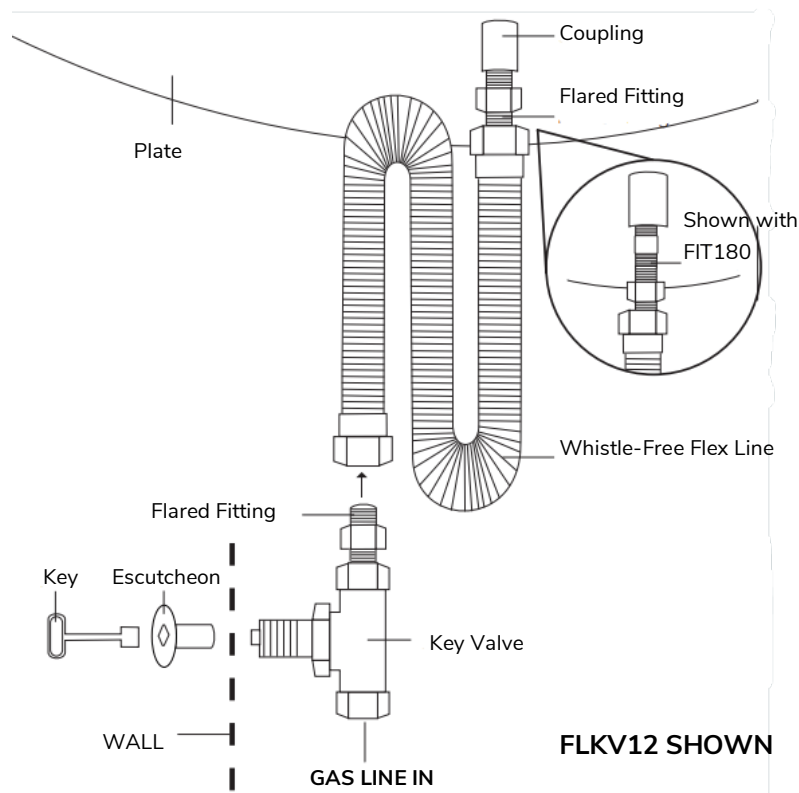
5. Locate 2nd Flared Fitting and Connect to Key Valve

(FLKV12 and FLKV34FIT180) Locate the second Flared Fitting removed in Step 2 and connect into the Key Valve, placing the non-fared end into the key valve. Tighten.



6. Connect Flex Line with Key Valve

(FLKV12 and FLKV34FIT180) Connect the Whistle-Free Flex Line to the Flared Fitting that is now connected to the Key Valve. Connect Escutcheon Plate to Key Valve through vessel wall. Tighten.





MATCH LIT SYSTEM CONNECTION DIAGRAMS

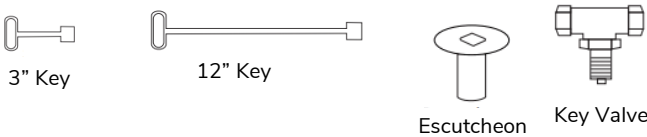
250K - 299K BTU Systems

250K - 299K with DFLKV34FIT250 (Follow steps 1 - 6)

250K - 299K with DFLKV34FIT300 (Follow steps 1 - 6, including 3A)

1. Locate DFLKV34 and FIT250 OR DFLKV34 and FIT300

Parts include two Whistle-Free Flex Lines, key valve, escutcheon plate, keys, and FIT250 Kit (DFLKV34FIT250 ONLY) or FIT300 Kit (DFLKV34FIT300 ONLY)



3" Key

12" Key

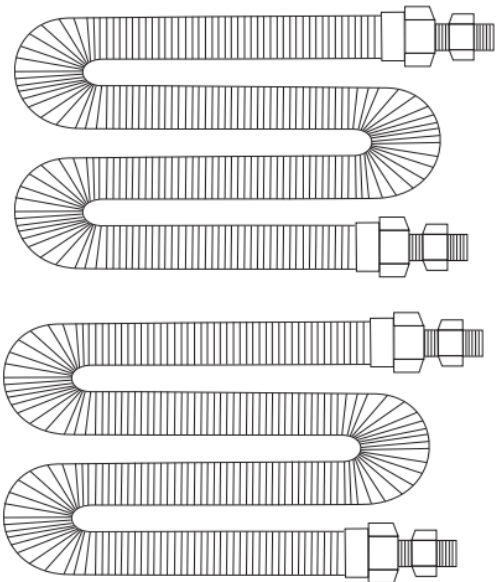
Escutcheon

Key Valve



FIT250 Kit: (1) 3/4" x 3" Nipple
(1) 3/4" x 1/2" MM Reducer Fitting
(2) 3/4" Tees
Included with DFLKV34FIT250 ONLY

FIT300 Kit: (2) 3/4" x 3" Nipple
(2) 3/4" Tees
Included with DFLKV34FIT300 ONLY

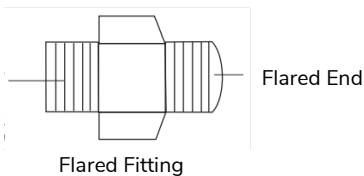


Whistle-Free Flex Line

2. Remove Flared Fittings from Whistle-Free Flex Lines

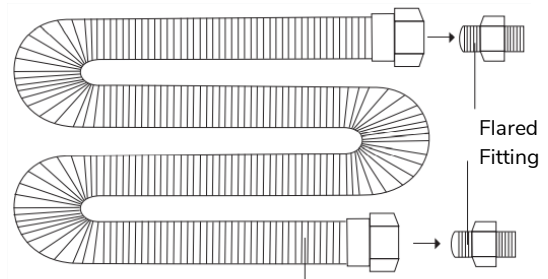
(DFLKV34FIT250 and DFLKV34FIT300) Removing flared fittings first makes attaching to FIT250 or FIT300 easier.

Thread sealant is applied to this end only throughout instructions



Flared Fitting

Flared End

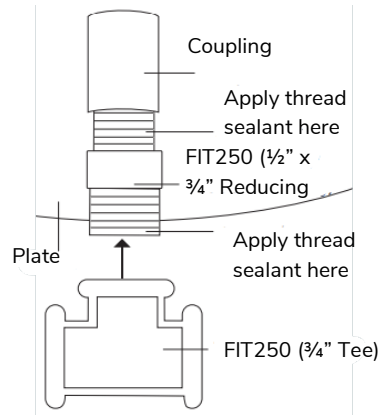


Whistle-Free Flex Line



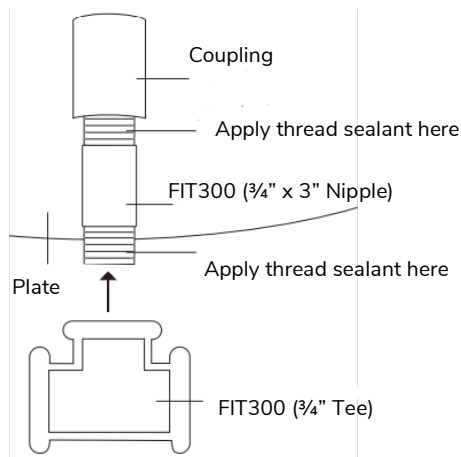
3. Connect FIT250 to Coupling

(DFLKV34FIT250) Connect $\frac{1}{2}$ " x $\frac{3}{4}$ " Reducing Fitting to $\frac{1}{2}$ " Coupling located on the bottom of the aluminum plate. Then connect $\frac{3}{4}$ " Tee to $\frac{1}{2}$ " x $\frac{3}{4}$ " Reducing Fitting.



3A. Connect FIT300 to Coupling

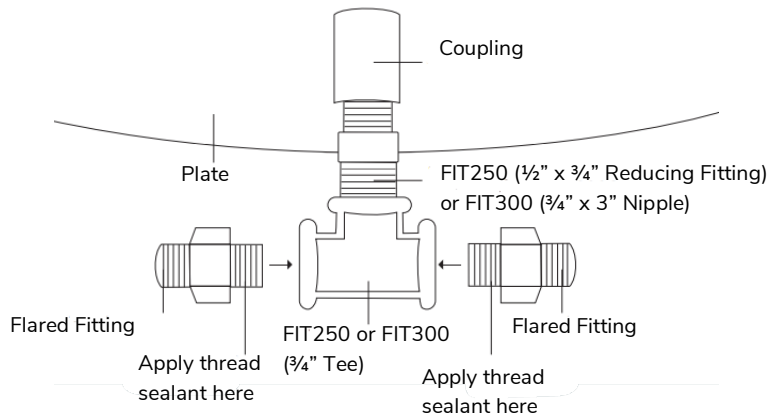
(DFLKV34FIT300) Connect $\frac{3}{4}$ " x 3" Nipple to $\frac{3}{4}$ " Coupling located on the bottom of the aluminum plate. Then connect $\frac{3}{4}$ " Tee to $\frac{3}{4}$ " x 3" Nipple.





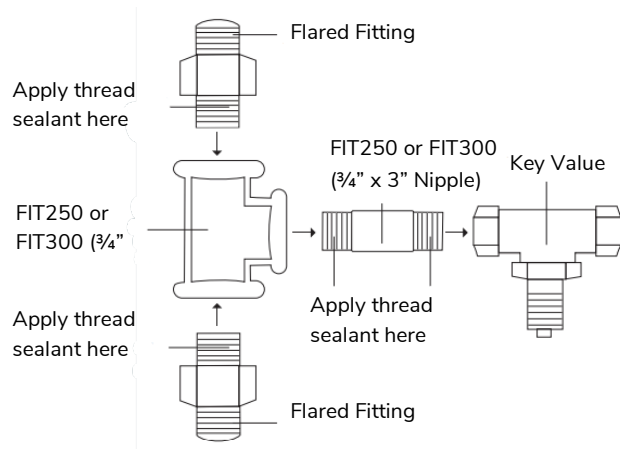
4. Connect Flared Fittings to 3/4" Tee

(DFLKV34FIT250 and DFLKV34FIT300) Connect Flared Fittings to 3/4" Tee.



5. Connect FIT Kit to Key Valve and Flared Fittings

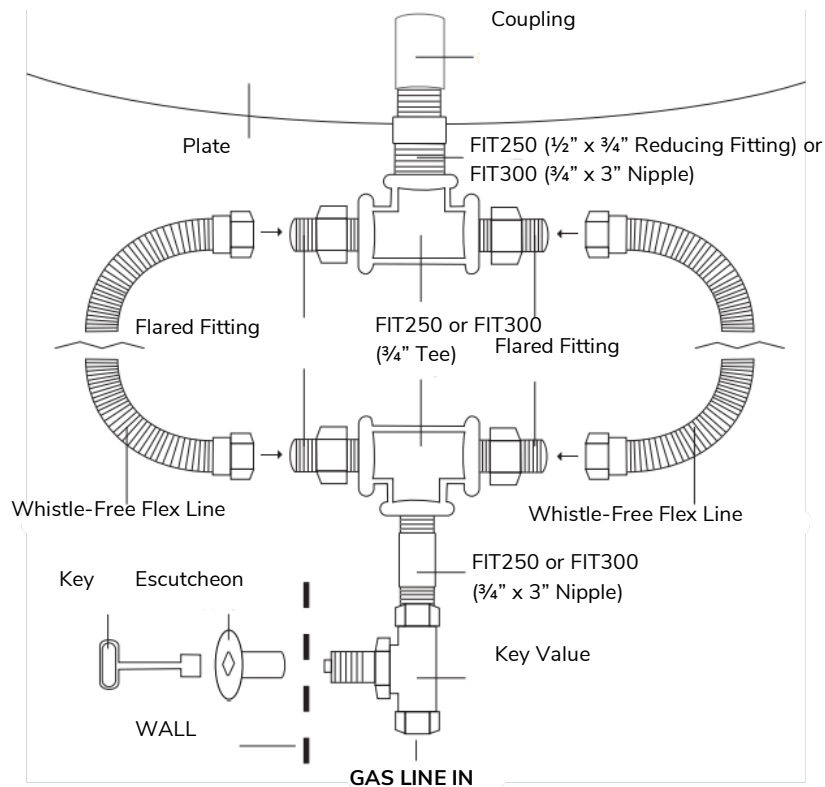
(DFLKV34FIT250 and DFLKV34FIT300) Connect 3/4" x 3" Nipple (FIT250 or FIT300) to Key Valve. Then connect the 3/4" Tee (FIT250 and FIT300) to the connection just made. Connect 3/4" Flared Fittings to the 3/4" Tee.





6. Connect Flex Lines to Coupling and Key Valve Connection

(DFLKV34FIT250 and DFLKV34FIT300) Connect ends of 3/4" Whistle-Free Flex Lines to Flared Fittings connected to the aluminum plate and Coupling. Then connect available ends of the Whistle-Free Flex Lines to the Key Valve Connection. Connect Escutcheon Plate to Key Valve through vessel wall. Tighten.





24 VOLT ELECTRONIC IGNITION SYSTEM CONNECTION DIAGRAMS

60K - 249K BTU Systems

60K - 120K with FLKV12 (Follow steps 1 - 6)

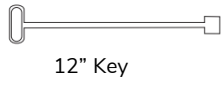
121K - 249K with FLKV34FIT180 (Follow steps 1 - 6, including 3A)

1. Locate FLKV12

Parts include Whistle-Free Flex Line, key valve, escutcheon plate, keys, and FIT180 (FLKV34FIT180 ONLY)



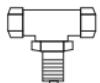
3" Key



12" Key



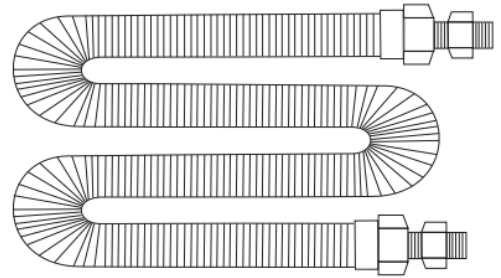
Escutcheon



Key Valve



FIT180 Kit: 1/2" x 2" Nipple
Included with FLKV34FIT180 ONLY

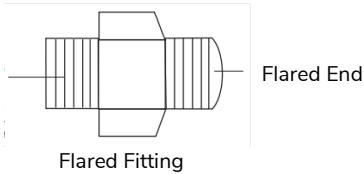


Whistle-Free Flex Line

2. Remove Flared Fittings from Whistle-Free Flex Lines

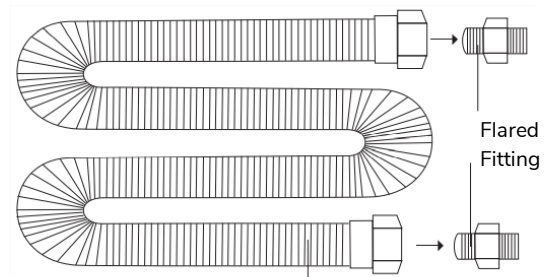
(FLKV12 and FLKV34FIT180) Removing flared fittings first makes attaching to coupling (FLKV12) or FIT180 (FLKV34FIT180) easier.

Thread sealant is applied to this end only throughout instructions



Flared End

Flared Fitting

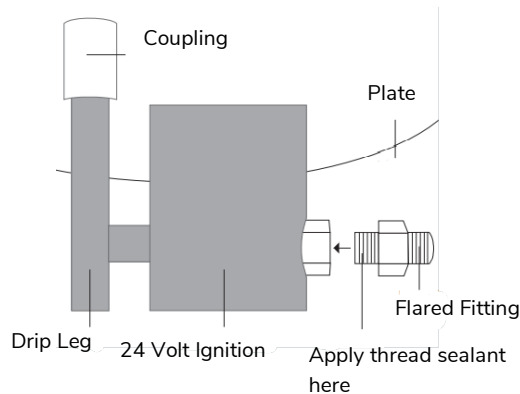


Flared Fitting

Whistle-Free Flex Line

3. Connect to Coupling

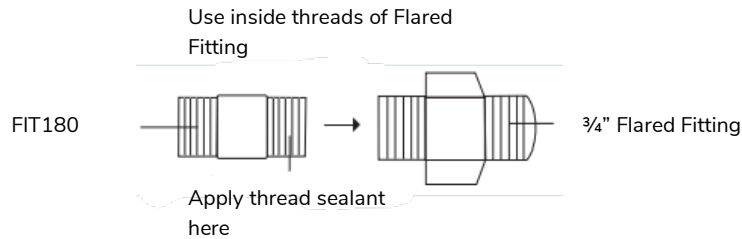
(FLKV12) Connect one 1/2" Flared Fittings removed in Step 2 to Gas Valve.



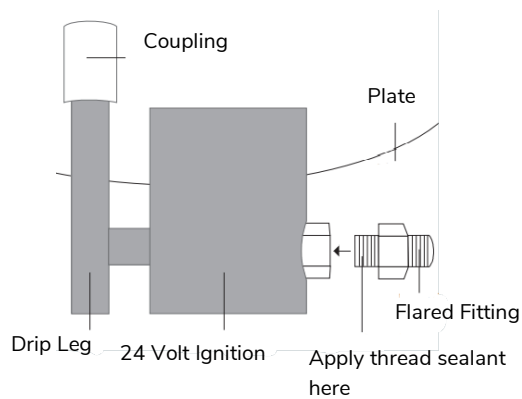


3A. Connect to FIT180, then to Coupling

(FLKV34FIT180) Connect one 1/2" Flared Fitting removed in Step 2 to FIT180 fitting provided by inserting FIT180 into interior threads of the Flared Fitting. Tighten.

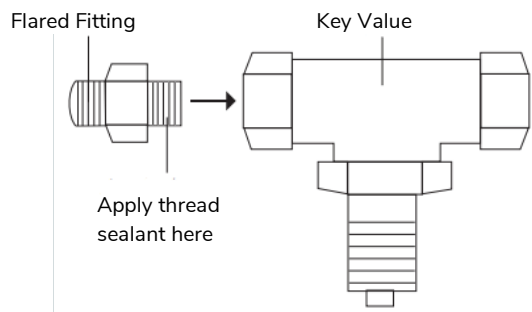


Then, connect the FIT180 fitting to Gas Valve.



4. Locate 2nd Flared Fitting and Connect to Key Valve

(FLKV12 and FLKV34FIT180) Locate the other Flared Fitting removed in Step 2 and connect into the Key Valve, placing the non-flared end into the key valve. Tighten.

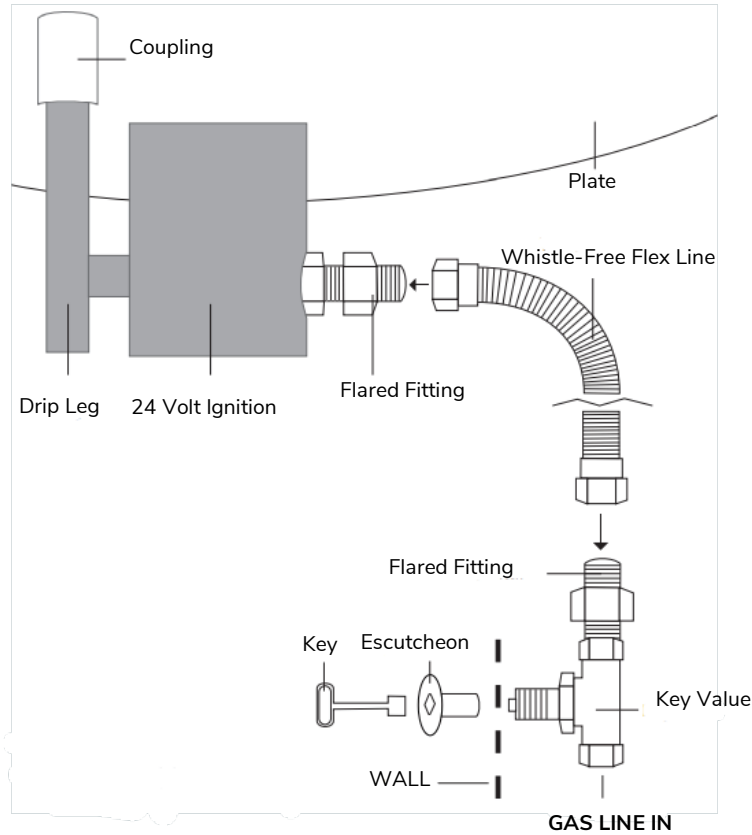




CONCRETE WAVE

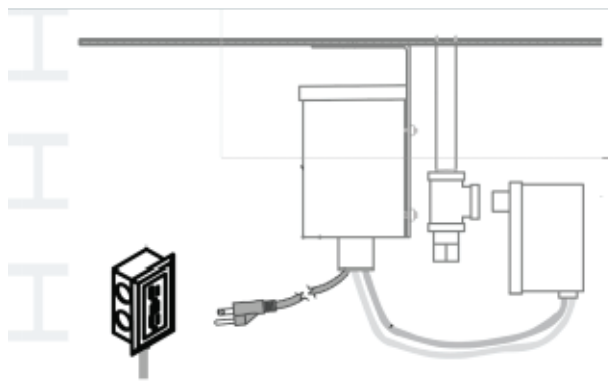
5. CONNECT FLEX LINE TO IGNITION AND KEY VALVE

(FLKV12 and FLKV34FIT180) Connect Whistle-Free Flex Line to Flared Fitting connection at ignition and then to Key Valve/ FIT180 connection in Step 5. Connect Escutcheon Plate to Key Valve through vessel wall. Tighten.



6. CONNECT ELECTRICITY

(FLKV12 and FLKV34FIT180) Plug ignition into three prong, above grade, NEMA Rated, outdoor specific GFCI electrical outlet or have electrician hardware ignition into transformer.





CONCRETE WAVE

24 VOLT ELECTRONIC IGNITION SYSTEM CONNECTION DIAGRAMS

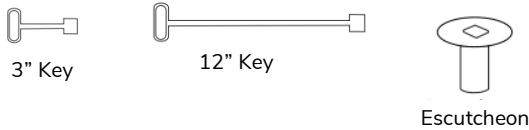
250K - 300K+ BTU Systems

250K - 299K with DFLKVFIT250 (Follow steps 1 - 8)

300K+ with DFLKVFIT300 (Follow steps 1 - 8, including 3A)

1. Locate DFLKV34 and FIT250 OR DFLKV34 and FIT300

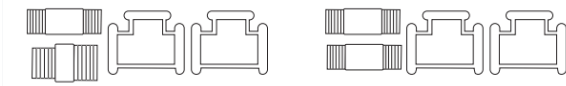
Parts include two Whistle-Free Flex Lines, key valve, escutcheon plate, keys, and FIT250 Kit (DFLKV34FIT250 ONLY) or FIT300 Kit (DFLKV34FIT300 ONLY)



3" Key

12" Key

Escutcheon

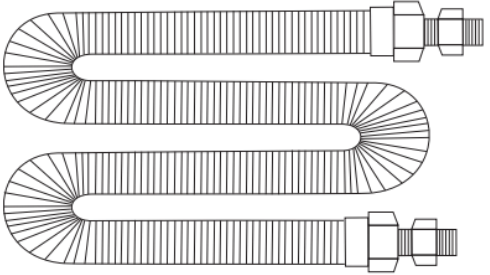
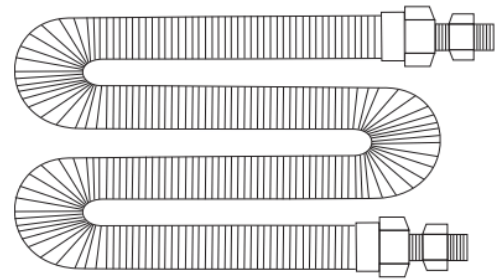


FIT250 Kit: (1) 3/4" x 3" Nipple
(1) 3/4" x 1/2" MM Reducer Fitting
(2) 3/4" Tees

Included with DFLKV34FIT250 ONLY

FIT300 Kit: (2) 3/4" x 3" Nipple
(2) 3/4" Tees

Included with DFLKV34FIT300 ONLY

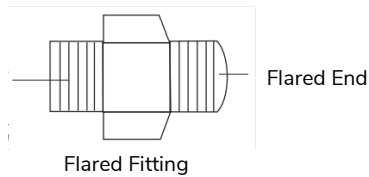


Whistle-Free Flex Line

2. Remove Flared Fittings from Whistle-Free Flex Lines

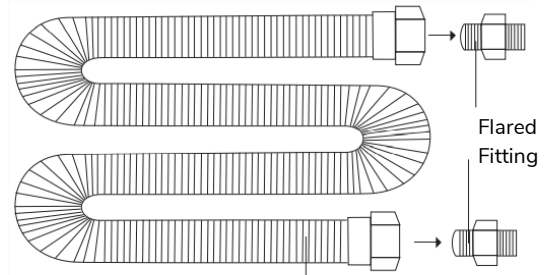
(DFLKV34FIT250 and DFLKV34FIT300) Removing flared fittings first makes attaching to FIT250 or FIT300 easier.

Thread sealant is applied to this end only throughout instructions



Flared Fitting

Flared End



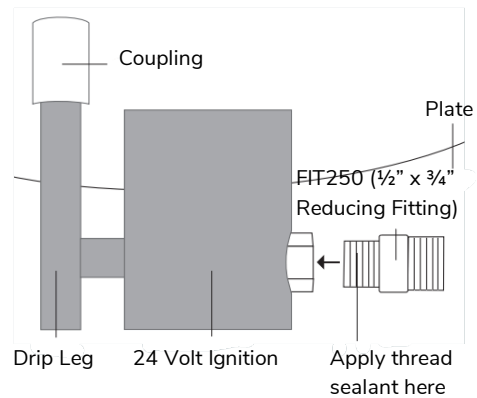
Whistle-Free Flex Line

Flared Fitting



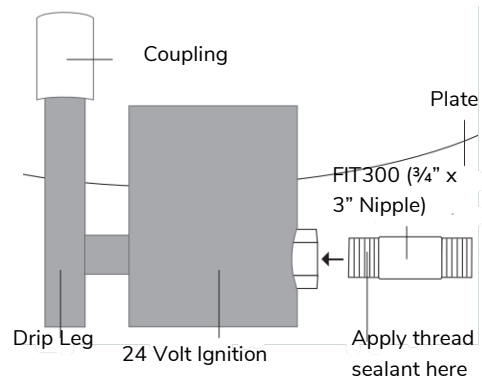
3. Connect to Coupling

(DFLKV34FIT250) Connect 1/2" x 3/4" Reducing Fitting to Gas Valve



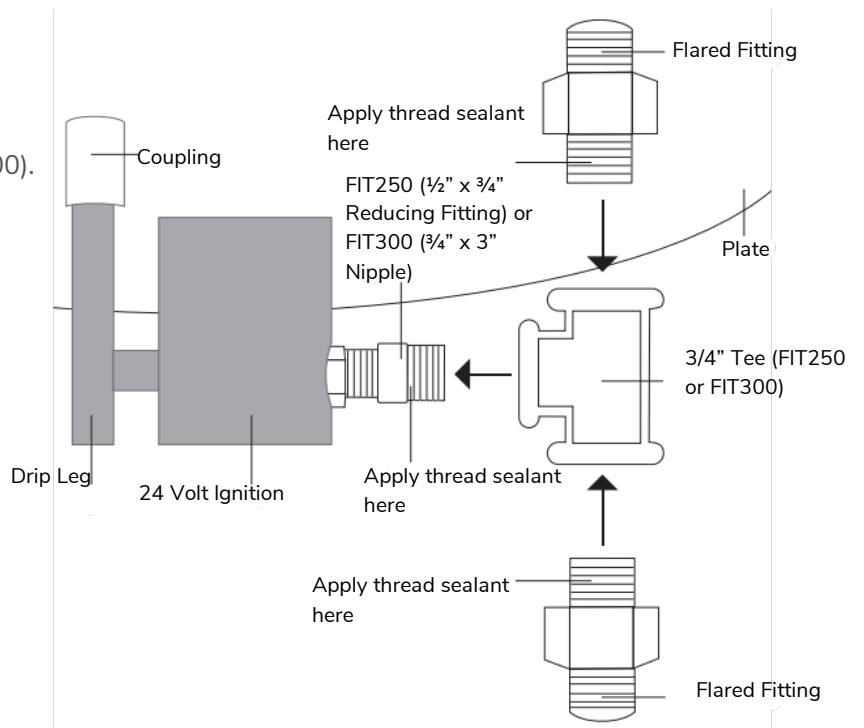
3A. Connect to Coupling

(DFLKV34FIT300) Connect 3/4" x 3" Nipple to Gas Valve



4. Connect Flared Fittings to 3/4" Tee

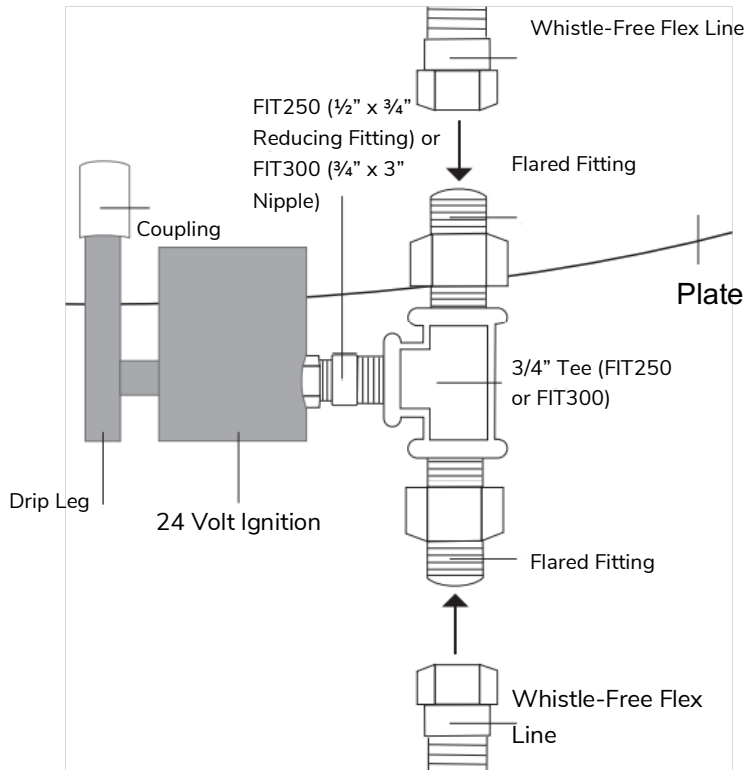
(DFLKV34FIT250 and DFLKV34FIT300) Connect 3/4" Tee to 1/2" x 3/4" Reducing Fitting (FIT250) or 3/4" x 3" Nipple (FIT300). Then connect Flared Fittings to 3/4" Tee.





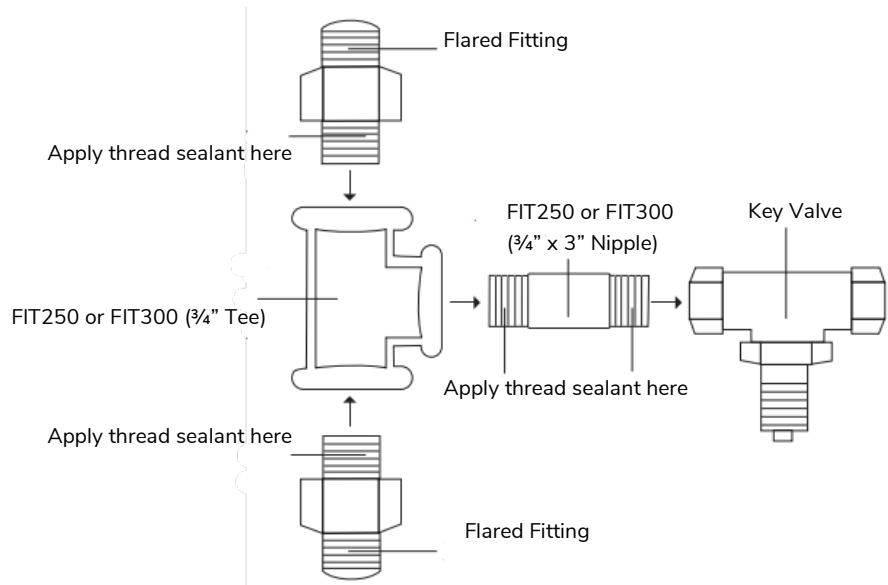
5. Connect Flex Lines to Tee

(DFLKV34FIT250 and DFLKV34FIT300)



6. Connect FIT Kit to Key Valve and Flared Fittings

(DFLKV34FIT250 and DFLKV34FIT300) Connect $\frac{3}{4}$ " \times 3" Nipple (FIT250 and FIT300) to Key Valve. Then connect the $\frac{3}{4}$ " Tee (FIT250 or FIT300) to the connection just made. Connect $\frac{3}{4}$ " Flared Fittings to the $\frac{3}{4}$ " Tee.

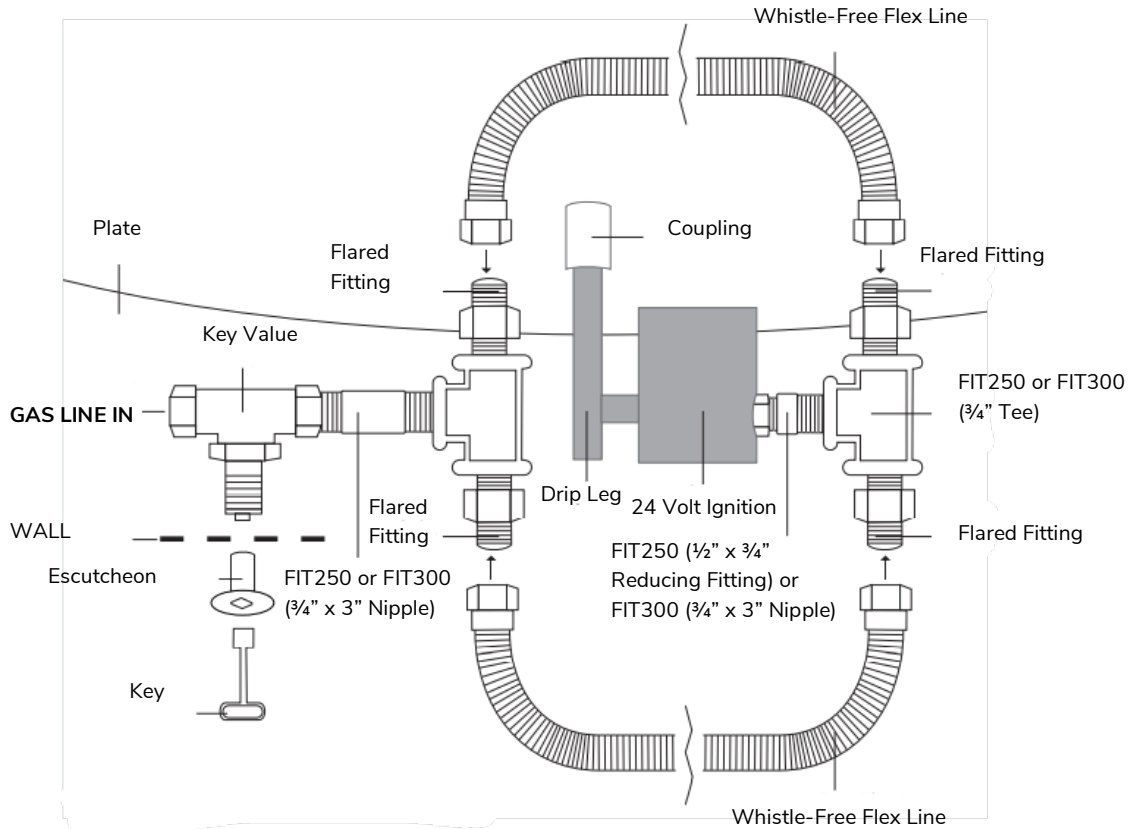




CONCRETE WAVE

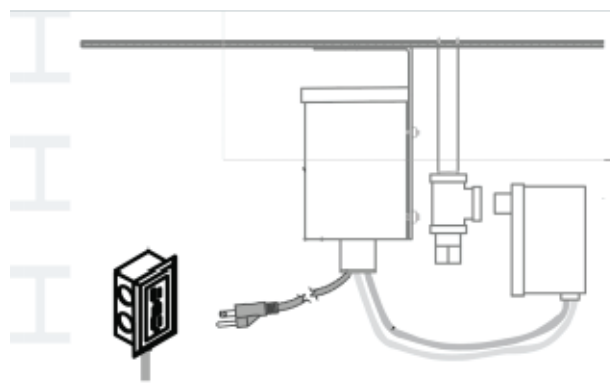
7. Connect Flex Lines to Coupling and Key Valve Connection

(DFLKV34FIT250 and DFLKV34FIT300) Connect ends of 3/4" Whistle-Free Flex Lines to Flared Fittings connected to the 24 Volt Ignition. Then connect available ends of the Whistle Free Flex Lines to the Key Valve Connection. Connect Escutcheon Plate to Key Valve through vessel wall. Tighten.



8. CONNECT ELECTRICITY

(FLKV12 and FLKV34FIT180) Plug ignition into three prong, above grade, NEMA Rated, outdoor specific GFCI electrical outlet or have electrician hardware ignition into transformer.

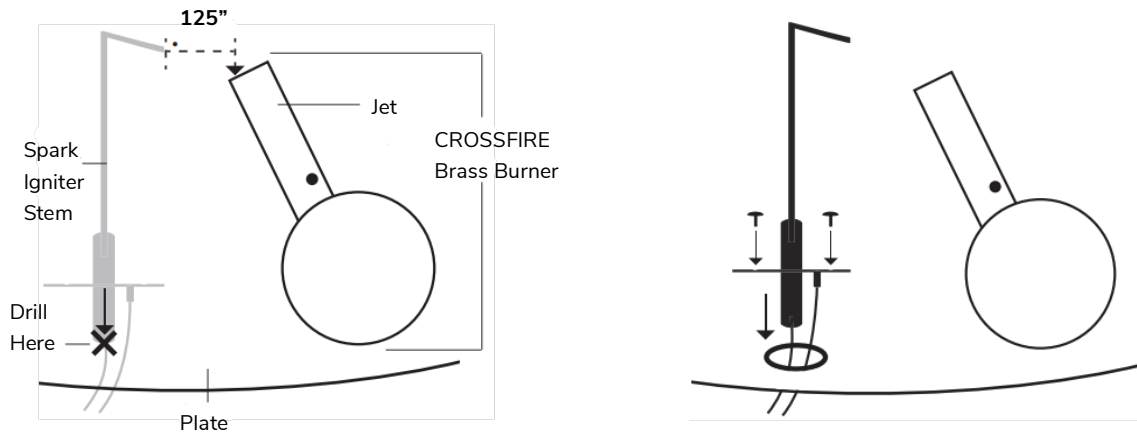




PUSH BUTTON IGNITION SYSTEM CONNECTION DIAGRAMS Up to 300K BTU Systems

1. To place the Spark Igniter in the proper position, installer will need to drill a hole in the plate. Measure where to drill hole by holding tip of Spark Igniter no further than .125" away from inside edge of jet. Drill hole where base of spark igniter sits. Thread wires through drilled hole and pull until Spark Igniter bracket is in place on plate. Screw Spark Igniter to plate.

*If the distance to the jet is greater than .125", you can adjust the position by **gently** bending the spark ignitor by the stem. Bending too far can result in breakage. Do not flex at the existing bend, this can result in breakage. If the spark ignitor is too far away or too close to the jet, you will not get a strong enough spark to light the burner.*



2. Install Push Button Module into Mounting Bracket

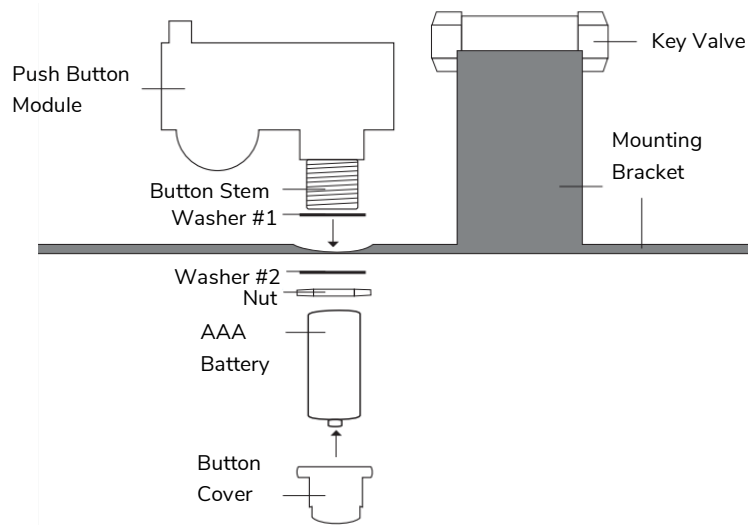
Unscrew Button Cover. Remove plastic Nut. Insert Washer #1 onto the button stem.

Insert Push Button Stem through mounting bracket hole.

Insert Washer #2. Put on plastic Nut and turn until Push Button Control has been secured to mounting bracket.

Insert AAA Battery into Button Stem.

Screw on Button Cover.





3. Connect Spark Igniter Wires

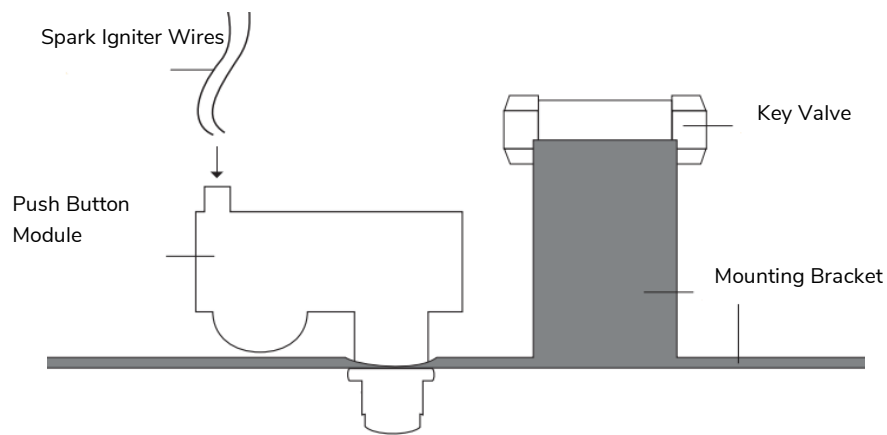
Crimp Spark Igniter Wires, then slide crimped wires on to connections using needle nose pliers. Be careful not to break connectors. Wires can go in either connection.

4. Test without Gas

Test Spark Igniter and Push Button Module WITHOUT gas, making sure spark arcs from electricity to jet.

5. Test with Gas

Burner should light within 5 seconds or a few clicks.





MEDIA INSTALLATION

Only use approved decorative media (glass, lava rock, ceramic log sets, etc.) that have been manufactured for specific use in fire features.

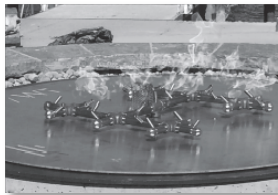
Media must be ½" or larger in size to prevent media from falling into gas orifices and blocking flow of gas out of jets. Use approved media only. To avoid dust and clogs getting into the system, do not dump the media over the burner. Place the media onto the plate or pan.

Burner should be covered by approved media up to ½" above the jets. Media may be positioned so that jet tips or barrels are visible. PLEASE NOTE - covering jets by more than ½" of media may create back pressure and gas leakage resulting in pooling of gas under the fire feature which can result in explosion which could cause property damage, personal injury, or death. Also note that flame pattern will be affected by any media coverage over gas orifice jets up to and including smothering of flames.

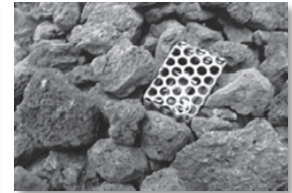
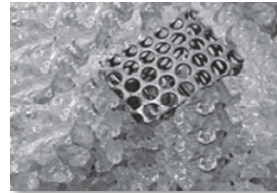
When using electronic ignition systems please pay particular attention to keeping media away from the pilot assembly area and/or away from wind screen of pilot assembly. Incorrect media installation that blocks pilot assembly will cause the pilot flame to stifle, blocking of thermal sensor and/or a delay in main burner ignition.

The appliance is designed to use approved media that is correctly installed over the burner to achieve proper combustion. Use of any media outside of the approved media may void warranty and affect proper operations.

Install enclosure and fire feature per instructions provided by manufacturer.



DO NOT DUMP MEDIA ON THE JETS. Apply media by pouring media around burner first, then pushing media towards the gas jet orifices making sure media does not fall into the gas jet orifices. Check each gas jet orifice prior to lighting to be sure no media has fallen into gas jet orifices.



For All Electronic Ignition Systems: Keep pilot assembly screen free and clear of all media. Media should be piled no more than halfway up screen only (not over full amount of screen) so that pilot gas orifice opening is above media coverage allowing for pilot flame to easily reach gas jet orifice.



OPERATING INSTRUCTIONS

Keep the area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

Solid fuels shall not be burned in the fire pit. Leaves, sticks, wood, paper, clothing, food material, should be kept away from the fire pit. Make sure that there is no vegetation or other objects over the top or sides of the fire pit that could interfere with safe operation. If there are any questions as to clearances, refer to CLEARANCES DIAGRAM in your Installation Manual for specific clearance allowances.



CONCRETE WAVE

Wind and gusty conditions may cause the flame to behave in an unpredictable manner. If conditions exist, turn off the fire feature.

All media (lava rock, volcanic stone, fire glass, etc.) has the potential of thermal spalling. This process may occur when media is wet and moisture gets trapped inside of the material due to rapid temperature differences. When this happens the media has the potential to crack or pop outside of the fireplace. Extra caution should be taken when lighting in high humidity or moisture. After igniting, allow 30 minutes to dry out the media, and monitor from a distance until all popping has ceased before fully enjoying the fire.

TURNING ON YOUR MATCH LIT SYSTEM

1. **STOP!** Read all the safety information.
2. Any cover must be removed prior to operation of burner or appliance and must remain off during operation. **Danger: Fire or Explosion Hazard. If you smell gas, shut off gas to the fire feature, extinguish any open flame. If odor continues, leave the area immediately. After leaving the area, call your gas supplier or fire department. Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury or death.**
3. Confirm that your main Natural Gas or Liquid Propane supply to the appliance is open. **Do not open your key valve or gas control valve at this time.**
4. Before lighting, visually inspect fire feature and remove any accumulated leaves or other combustible debris.
5. Locate key valve or gas control valve controlling gas supply to your appliance.
6. Locate the closest jet tip on the exterior of the burner that can be easily accessed while operating key valve or gas control valve without reaching across other jets or the burner.
7. Place a lit lighter or match flame on or slightly above the tip of the jet located in Step 6 while not reaching over it. A long reach lighter or match is recommended.
8. While holding the flame on or slightly above the jet tip as described in Step 7 above, slowly turn the key valve or gas control knob to the left to allow a minimal flow of gas to the burner and light the selected jet. While attempting to light jet, do not substantially increase gas supply. Excessive flow of gas before jet is lit can cause pooling of gas and result in sudden flare up. **Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury or death.**
9. Once the selected jet (or other jets) is lit, continue to keep any body parts from above the pit or burner and slowly turn the key valve or gas control knob further to the left to increase the flow of gas to the burner. The other jets of the burner should ignite.
10. You may follow the same procedure described above to light additional jets only if able to do so without reaching across the burner or other jets which may ignite.
11. If the flame will not stay lit after several attempts, turn the key valve to the off position and call your local technician or gas supplier for service prior to re-attempting to operate your appliance.
12. Once lit, use the key valve to adjust the flame to the desired height.

TURNING OFF YOUR MATCH LIT SYSTEM

1. Use key to turn valve to OFF position by turning key to the right.
2. Verify flame is OUT.
3. If using LP bottle/tank – turn bottle/tank to CLOSED position.
4. Allow to cool completely, then cover the fire feature with waterproof/weatherproof cover.



CONCRETE WAVE

7. Use key valve to adjust flame to desired height.

TURNING ON YOUR ELECTRONIC IGNITION SYSTEMS WARNING: For electronic ignition models requiring power supply – a qualified, licensed electrician must install power supply. An outdoor NEMA rated GFCI Receptacle outlet should be installed within the interior of the enclosure above grade to supply power to system.

1. **STOP!** Read all the safety information and warnings in the Installation Manual before attempting to light fire feature.
2. Any cover must be removed prior to operation of burner and must remain off during operation. **Danger: Fire or Explosion Hazard. If you smell gas, shut off gas to the appliance, extinguish any open flame. If odor continues, leave the area immediately. After leaving the area, call your gas supplier or fire department. Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury or death.**
3. Confirm that your Natural Gas or Liquid Propane supply to the appliance is open or on.
4. Before lighting, visually inspect fire feature and remove any accumulated leaves or other combustible debris.
5. If you do not smell gas, use the key to turn the key valve or gas control valve to the ON position by turning the key to the left.
6. Turn on power to the fire feature with switch, button, or remote. Within 10 seconds of power application Pilot Flame should be lit and visible. Once the pilot is lit, the main burner will ignite shortly after. For Push Button: Press push button ignition and listen for clicking noise which indicates electrode is firing. Gas should ignite after a few clicks.

TURNING OFF YOUR ELECTRONIC IGNITION SYSTEMS

1. Turn off power to fire feature –with remote control or wall switch.
2. Turnkey valve to OFF position by turning key to the right.
3. If using LP bottle/tank – turn bottle/tank to CLOSED position.
4. Verify flame is OUT.
5. After allowing for ample cooling time, cover the fire feature with waterproof/weatherproof cover.



WARNING:

FOR REMOTE CONTROL USE: To prevent unwanted startup turn off power to the appliance when not in use.



WARNING:

If fire feature fails to turn off completely (small flames still visible), turn off gas supply using the main valve by your meter, and contact your gas supplier or qualified technician.



WARNING:

For electronic ignition systems, which have an extended or detached valve box, the area in which the valve box is installed must conform with all installation requirements, including, but not limited to location, construction, venting and local codes. Failure to do so may result in property damage, personal injury, or death.



GENERAL MAINTENANCE

WARNING:

Fire feature should be inspected by user prior to each use and inspected at least once annually by a qualified gas appliance service professional.

Any guard or protective device removed for servicing must be replaced prior to operating the appliance.

Installation and repair should be done by a qualified technician. Appliances should be inspected prior to each use and inspected at least once annually by a qualified gas appliance service professional.

Ensure gas and power (if applicable) are shut off and fire pit is cool before servicing.

Keep fire feature covered at all times when not in use.

Keep any debris out of appliance - clean as needed. If debris is found, remove before lighting system.

JET ORIFICE CLEANING

Annual inspection and cleaning of the fire feature is recommended. If at any time the flames exhibit any abnormal shapes or behavior, or if burner fails to ignite properly, then the burner holes located in bottom of gas jet orifices may require cleaning. The appliance can be cleaned by carefully removing the logs and media to allow access to burner. Use a brush to carefully remove dust, spider webs and loose particles. Periodical inspection by a qualified service technician of the air-intake is required to ensure your fire feature performs properly.

Use a wire or small puncture tool and carefully insert in jet. Tool should be size of a small paper

clip. If evidence of damage, burner must be replaced with the appropriate CROSSFIRE™ burner specified by manufacturer.

PILOT ASSEMBLY/THERMOCOUPLE CLEANING OF SOOT

Every six months or as needed, remove media, lava rock, or glass from around the pilot assembly. Clean the thermocouple of any soot using soft brush. Be careful not to damage the igniter element. Be sure when returning your media to the pit to cover your orifices to avoid blocking the jets as mentioned on page 6.

Once pilot assembly is clean, inspect to see fame that covers 3/8" to 1/2" of the thermocouple. Cleaning of pilot gas orifice may be required by removing pilot hood and removing orifice and cleaning out orifices from debris, soot or anything that may be preventing gas flow from exiting the pilot gas orifice.

For Push Button only, visually inspect electrode and jet used for conductivity regularly to make sure it is free of debris and soot. Soot build up or obstructions of any kind can reduce effectiveness of spark. Without a strong spark, burner will not light. If spark is not strong enough, clean off/remove any soot from jet and, using fine grit sand paper, gently remove any rust from electrode. If spark is still not strong enough to light burner, check/replace batteries. If new batteries don't fix the problem, replace the spark electrode.



- Improperly applied media.
- Wind conditions might be too severe.

TROUBLESHOOTING

MATCH LIT / PUSH BUTTON

Below are some potential causes and countermeasures to the symptoms listed:

- No fame - Make sure the key valve is on. Turn key to the left to open valve and allow gas flow.
- Low or Weak Flame - Verify correct gas pressure using the Water Column Pressure Chart.
- One or more jets will not light – Clean the orifices and check jets for obstruction.
- Fire feature is making a whistling sound - Make sure that the flex line is the whistle-free, without sharp bends, and installed correctly. Check the pressure to be sure it is within recommended ranges.
- Contact a certified gas technician for service & repair if these suggestions do not solve the issue.

ELECTRONIC IGNITION SYSTEMS

Below are some potential causes and countermeasures to the symptoms below.

- **No Pilot Flame - Pilot sparks or glow plug glows but pilot won't light.**
 - Air in the gas line. If this is a new install it may take several attempts to purge the air.
 - Debris is in the gas line. Clear the gas line.
 - Water/Moisture is in the gas line. Clear the gas line.
 - Incorrect Gas pressure. Confirm proper gas pressure.
 - Pilot gas orifice is dirty. Remove the pilot head and clean.
 - Electrical current is not strong enough to support igniter – either spark on spark igniter isn't strong enough to ignite pilot fame (3V or Spark Igniter) or glow plug is not getting hot enough to ignite pilot fame (Hot Surface Igniter).

- **No Main Burner - Pilot lights but main burner will not light.**

- Gas pressure is incorrect. Confirm proper gas pressure.
- Small pilot fame. Remove the pilot head and clean pilot gas orifice.
- Dirty thermal sensor. Clean using soft brush.
- CROSSFIRE™ BURNER has an obstruction. Confirm there is no debris blocking gas orifice jets in main burner, purge water and air from gas lines or in the burner, and confirm there is no debris in gas lines.

- **Main Burner Turning On and Off Intermittently**

- Small pilot fame. Remove the pilot head and clean as described in the maintenance section.
- Improperly applied media - Make sure your media is not covering the pilot assembly and that your logs are not placed over or too near the wind cage.
- Gas pressure is incorrect - Confirm proper gas pressure by checking at the gas stub to the pit and the Water Column Pressure Table.
- Thermal sensor is dirty or defective - Gently clean thermal sensor, or change the pilot assembly.
- Wind conditions – Confirm the burner is properly located 4-6" inside the pit, and be sure the wind conditions are not too severe for safe use.
- Fire Feature is Making a Whistling Sound - Make sure that the flex line is the correct size and that there are no kinks or tight bends in the line. If the whistling sound is coming from the jets, please check your pressure against the Water Column Pressure Table in this manual to make



CONCRETE WAVE

sure it is within recommended ranges. Adjust as needed.

Please contact your retailer or certified technician for service & repair if these suggestions do not solve the issue. If replacement parts are required – contact your retailer or licensed technician for authorized replacement parts. Warranty is null and void if unauthorized parts are used.

BURNER WARRANTY

ALL CROSSFIRE BRASS BURNERS HAVE A LIMITED LIFETIME WARRANTY.

ALL BURNERS AND ELECTRONICS (IF PRESENT) MUST BE COVERED WHEN NOT IN USE OR WARRANTY IS NULL AND VOID

Warming Trends® warrants its products to be free from defective material and workmanship under normal service and use. This warranty covers manufacturing defects only and does not cover defects due to normal wear and tear; it does not warrant any product or part that has been altered, damaged, damaged in shipping, disassembled, modified, misused, not properly maintained, not installed, or not kept in regular use after installation. Warming Trends® liability shall be restricted to the purchase price of the product only and makes no other warranty, express or implied, but not limited to, the implied warranties of salability and appropriateness for a specified purpose, with respect to its products and parts, whether used along or in combination with others. Warming Trends® is free of liability for any damages caused by the unit, as well as inconvenience expenses, material or labor charges incurred by any service call, repair, removal or re-installation of any unit. Incidental or consequential damages are not covered by this warranty. Warranty does not cover damage to systems due to debris in the gas lines or damage to system due to water. Owner is responsible for reading and understanding warranty for full terms and conditions.

Warming Trends®, at its discretion, agrees to repair or replace defective product if returned to Warming Trends® within the warranty period.

The respective warranty time periods are effective from the original date of purchase. The warranty is non-transferable and applies only to the original purchaser. In addition, this warranty is automatically void if the unit's serial number has been removed or altered in any way.

IGNITION SYSTEMS

ALL BURNERS AND ELECTRONICS MUST BE COVERED WHEN NOT IN USE OR WARRANTY IS NULL AND VOID

Push Button Ignition Systems: There is no warranty offered on any push button ignition system.

Electronic Ignition Systems - Residential Installations:

24VIK and 3VIK systems are fully warranted for one (1) year with a limited warranty for two (2) years from date of purchase. In the event a system must be replaced due to a defect/malfunction of the system, Warming Trends® will repair or replace the system at no cost for the first year. In the event a system fails after the first year from date of purchase and within two years from date of purchase, Warming Trends® will repair or replace the system for a cost of 50% of the current list price. This warranty does not cover labor costs.

P24VIK systems purchased ON OR BEFORE April 15, 2018 are fully warranted for one (1) year with a limited warranty for two (2) years from date of purchase. In the event a system must be replaced due to a defect/malfunction of the system, Warming Trends® will repair or replace the system at no cost for the first year. In the event a system fails after the first year and within two years of date of purchase, the cost for a replacement system is at a discount rate of 50% of the current listed price. This warranty does not cover labor costs.



CONCRETE WAVE

P24VIK Systems purchased AFTER April 15, 2018 are fully warranted for three (3) years from date of purchase. In the event a system must be replaced due to a defect/malfunction of the system, Warming Trends® will repair or replace the system at no cost for the first three years. This warranty does not cover labor costs.

Electronic Ignition Systems - Commercial Installations: 24VIK and 3VIK systems are fully warranted for twelve months from date of purchase. In the event a system must be replaced due to a defect/malfunction of the system, Warming Trends® will repair or replace the system at no cost. This warranty does not cover labor costs.

P24VIK Systems are fully warranted for one (1) year from date of purchase. In the event a system must be replaced due to a defect/malfunction of the system, Warming Trends® will repair or replace the system at no cost for 12 months from the date of purchase. This warranty does not cover labor costs.

Problems in the functioning of the systems due to gas plumbing or electrical installed by others are not covered by any warranty offered by Warming Trends®.

No dealer, distributor, or other person has the authority to represent or warrant a Warming Trends® product beyond the terms contained within this warranty, and Warming Trends® assumes no liability for such warranty representations. Any questions concerning this warranty should be directed to the Warming Trends® corporate office.

RMA# clearly printed on the outside of the package. Return shipping costs are the purchaser's responsibility. Warming Trends® is not responsible for product damaged or lost in transit. It is recommended that return items are shipped via a delivery service that can be tracked and/or insured to confirm receipt.

Return Policy of Warranty Product

Any Warming Trends® product deemed by Warming Trends® as defective and covered by the warranty may be returned to Warming Trends® for assessment to determine if repair or replacement is necessary. In order to return a product, you must have a Return Merchandise Authorization number (RMA#). Please contact Warming Trends® at orders@Warming-Trends.com or 877-556-5255 to obtain an RMA#. All returned merchandise must have the



PROP 65 WARNING

What is “Prop 65”?

Proposition 65 (“Prop 65”) is a California law which requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects or other reproductive harm. These chemicals can be in the products that Californians purchase, in their homes or workplaces, or that are released into the environment. Prop 65 enables Californians to make informed decisions about their exposures to these chemicals.

Prop 65 also prohibits California businesses from knowingly discharging significant amounts of listed chemicals into sources of drinking water.

Prop 65 requires California to publish a list of chemicals known to cause cancer, birth defects or other reproductive harm. This list, which must be updated at least once a year, has grown to include approximately 900 chemicals since it was first published in 1987.

Prop 65 became law in November 1986, and is also known as the Safe Drinking Water and Toxic Enforcement Act of 1986. Prop 65 does not apply to products sold outside of the state of California. For more info on Prop 65, go to: www.p65warnings.ca.gov For a fully updated list of all the chemicals and compounds that are known to the State of California to cause cancer or reproductive toxicity, go to: <https://oehha.ca.gov/proposition-65/proposition-65-list>.

Warnings

Lead: Can cause birth defects or other reproductive harm. Lead can be found in brass fittings. View the fact sheet at www.p65warnings.ca.gov

Carbon Monoxide: Carbon monoxide is a colorless, odorless, and poisonous gas. It is formed during the combustion of various fuels. View the fact sheet at www.p65warnings.ca.gov

Bisphenol A: BPA is a widely used chemical that be found in linings, plastics, and other materials. It can cause harm to the female reproductive system. View the fact sheet at www.p65warnings.ca.gov

Furniture Product Exposure: Some furniture products can expose you to chemicals which are known to the State of California to cause cancer or birth defects or other reproductive harm. View the fact sheet at www.p65warnings.ca.gov

Want to see more? View all of the Prop 65 fact sheets at www.p65warnings.ca.gov

More Info on Prop 65

If you have specific questions on the administration or implementation of Proposition 65, you can contact OEHHA’s Proposition 65 program at P65.Questions@oehha.ca.gov, or by phone at (916) 445-6900.

For enforcement information, contact the California Attorney General’s Office at (510) 622-2160, or visit <https://oag.ca.gov/prop65>.

Note: The information provided is for informational purposes only and does not constitute legal advice. If you have any concerns about Prop 65 or how it may apply to our products, please consult your attorney.