



PUSH-BUTTON / FLAME SENSING CONTROL BOX



FPPK Series

Installation & Operation Instructions



FIRE INSPIRED®

Hearth Products Controls

Fire-inspired since 1975.

840-FPPK



C US

NATIONAL
FIREPLACE
INSTITUTE





This is a Safety Alert Symbol

When you see this symbol on the fire pit insert, or in this manual, look for one of the following signal word panels alerting you to the potential for personal injury, death, or major property damage.



WARNING: For Outdoor Use Only.

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 vicinity of this or any other appliance.

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



DANGER

FIRE OR EXPLOSION HAZARD

If you smell gas:

- **Shut off gas to the appliance.**
- **Extinguish an 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.



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.



WARNING: 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 • FLAMMABLE GAS UNDER PRESSURE.
LEAKING LP-GAS MAY CAUSE A FIRE OR EXPLOSION IF IGNITED
CAUSING SERIOUS BODILY INJURY OR DEATH.
CONTACT LP GAS SUPPLIER FOR REPAIRS, OR DISPOSAL OF THIS
CYLINDER OR UNUSED LP-GAS.

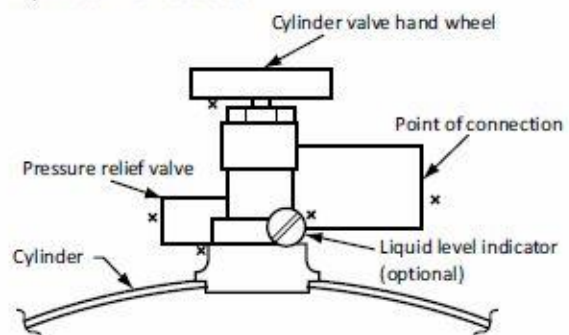
⚠ WARNING • FOR OUTDOOR USE ONLY.*
DO NOT USE OR STORE CYLINDER IN A BUILDING,
GARAGE OR ENCLOSED AREA.

⚠ WARNING:

- Know the odor of LP-gas. If you hear, see or smell leaking LP-gas, immediately get everyone away from the cylinder and call the Fire Department. Do not attempt repairs.
- Caution your LP-gas supplier to:
 - Be certain cylinder is purged of trapped air prior to first filling.
 - Be certain not to over fill the cylinder.
 - Be certain cylinder requalification date is checked.
- LP-gas is heavier than air and may settle in low places while dissipating.
- Contact with the liquid contents of cylinder will cause freeze burns to the skin.
- Do not allow children to tamper or play with cylinder.
- When not connected for use, keep cylinder valve turned off. Self contained appliances shall be limited to a cylinder of 30 lb capacity or less.
- Do not use, store or transport cylinder where it would be exposed to high temperatures. Relief valve may open allowing a large amount of flammable gas to escape.
- When transporting, keep cylinder secured in an upright position with cylinder valve turned off.

WHEN CONNECTING FOR USE:

- Use only in compliance with applicable codes.
- Read and follow manufacturer's instructions.
- Consult manufacturer's instructions concerning the cylinder connection provided with your appliance.
- Be sure regulator vent is not pointing up.
- Turn off all valves on the appliance.
- Do not check for gas leaks with a match or open flame. Apply soapy water at areas marked "X". Open cylinder valve. If bubble appears, close valve and have LP-gas service person make needed repairs. Also, check appliance valves and connections to make sure they do not leak before lighting appliance.
- Light appliance(s) following manufacturer's instructions.
- When appliance is not in use, keep the cylinder valve closed.



DO NOT REMOVE, DEFACE, OR OBLITERATE THIS LABEL
***EXCEPT AS AUTHORIZED BY ANSI/NFPA 58.**

⚠ DANGER. Do not store a spare LP cylinder under or near a barbecue grill, or other heat sources.
NEVER fill an LP cylinder beyond 80% full: a fire causing death or serious injury may occur.

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Important Safety Information

- Hearth Products Controls Company recommends that our products are installed by professionals locally licensed by the authority having jurisdiction in gas piping. All installation instructions must be followed to ensure proper performance and safety. Hearth Products Controls Company assumes no responsibility for problems relating to the installation.
- To qualify for warranty, all instructions must be strictly followed. Otherwise, warranty may be void. Never alter product or configuration in any way.
- Annual servicing should be handled by professionals certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists or in Canada by WETT (Wood Energy Technical Training).
- It is the installer's responsibility to ensure a safe installation and to educate the end-user regarding the features, safety recommendations and proper operation of this product.
- Please reference page 1 for all warnings.

INSTALLER:

Leave this manual with the appliance.

END USER:

Retain this manual for future reference.

SELECT MODELS

Certified to
ANSI Z21.97-2014
CSA 2.41-2014



Technical Support

For information and support contact your Hearth Products Controls dealer.

1 Important Safety Information

Symbol Legend



This is a Safety Alert Symbol

When you see this symbol on the fire pit insert, or in this manual, look for one of the following signal word panels alerting you to the potential for personal injury, death, or major property damage.

IMPORTANT

Necessary instructions



1 Important Safety Information

Please reference page 1 for all warnings.

Important Safety Information for Installers

Leave this manual with the end-user and instruct them to retain it for future reference. Instructions and product updates are also available at **www.hpcfire.com** under the Support tab.

Installers must carefully follow the instructions in this manual to prevent personal injury or property loss. These instructions contain information critical to the safe installation and operation of the fire pit.

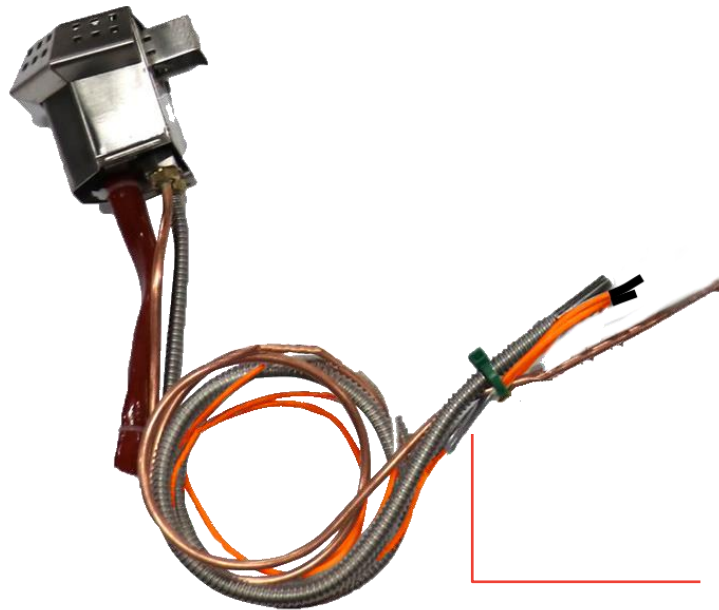
- Instructions are updated as needed. It is the responsibility of the installers to check for product updates and installation manual updates at **[www.hpcfire.com/ support.html](http://www.hpcfire.com/support.html)** prior to installation.
- It is the responsibility of the installer to follow:
 - The National Fuel Gas Code, ANSI Z223.1/NFPA 54 or International Fuel Gas Code.
 - Natural Gas and Propane Installation Code CSA B149.1 or CSA B149.2.
 - The National Electrical Code, ANSI/NFPA 70. In Canada, Canadian Electrical Code CSA22.1.
 - Local codes
- Only use gas/fuel type specified for this fire pit as noted on the fire pit control box label. NEVER use an alternative fuel to include biofuel, ethanol, lighter fluid, or any other fuel.
- Gas pressure and type should be checked prior to installation and use.
 - **Natural Gas Fire Pit:** Supply Pressure: Minimum: 6.0 inches W.C.; Maximum: 7.0 inches W.C.
 - **LP Gas:** Supply Pressure: Minimum: 8.0 inches W.C.; Maximum: 11.0 inches W.C.

Important Safety Information for End-Users

- Never leave an operating fire pit unattended or with someone not familiar with its operation or emergency shut-off locations.
- Both children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns and clothing ignition.
- Young children should be carefully supervised when they are around fire pit.
- Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.



2 Product Features and Parts List



Ignition System
Blowout Box



FPPK Control
Box

Valve Control

Push-button
Igniter

3 Selecting the Fire Pit Location

NOTE: All fire pits and systems are designed and intended for outdoor use only.

IMPORTANT

It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. HPC is not responsible for damage resulting from failure to follow these recommendations.

- Select a location that
 - ensures above-grade installation of the fire pit.
 - offers good drainage.
 - allows easy access for installation and maintenance of the fire pit.
 - provides sufficient horizontal room to enjoy the fire pit while allowing a safe distance from the heat and flame.
- Fire pits create extremely elevated temperatures. For clearances refer to table 3.1. Clothing or other flammable materials should not be placed on or near fire pit.

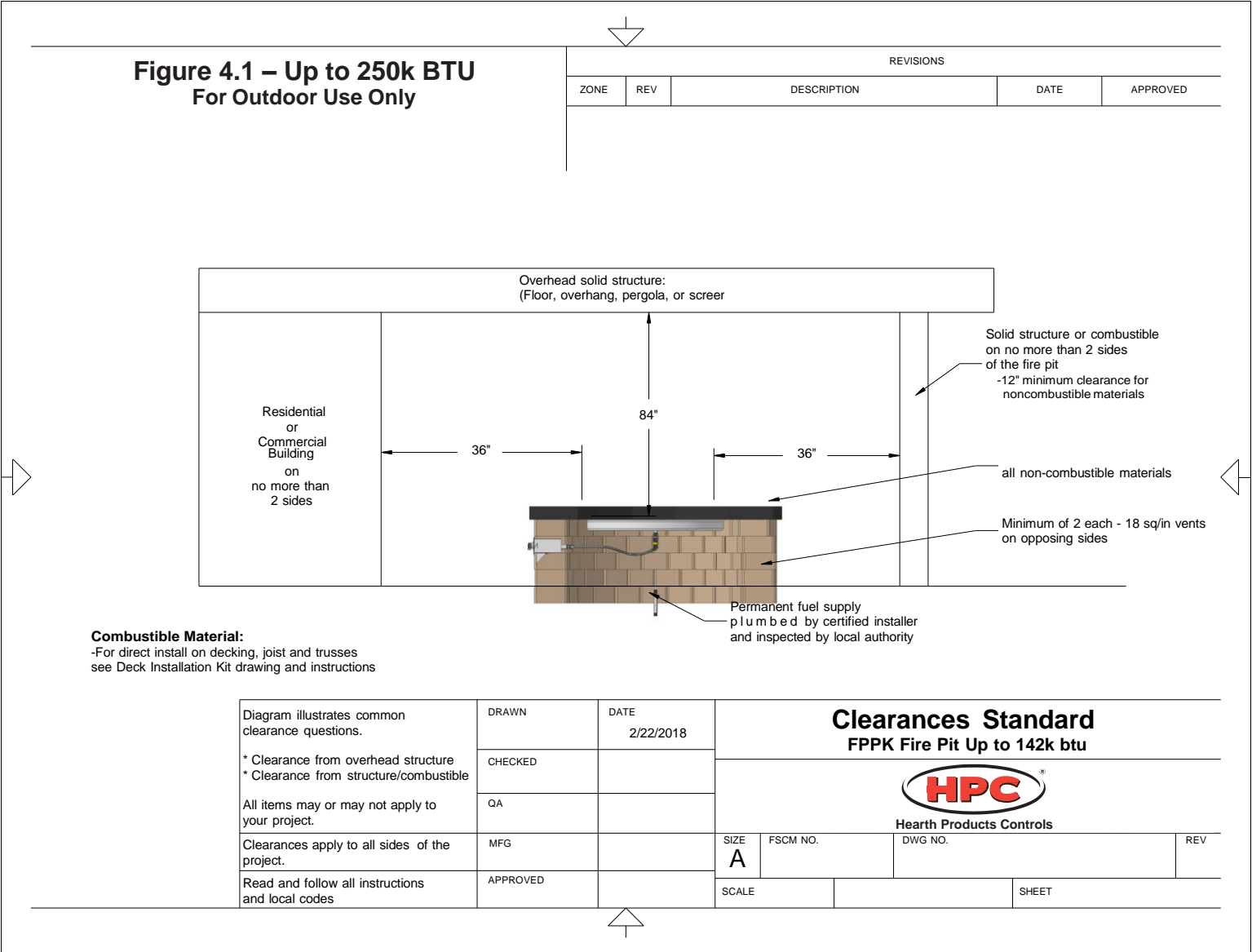
Clearances around Fire Pit

Fire Pit Clearances	Up to 142K
Under Valve Box when applicable for drainage	2"
Sides Surrounding Fire Pit from Structure or Combustibles	36" (12" for non-
Overhead Clearance above Product	84"

Table 3.1 – Fire Pit Clearances

4 Overhead Structures and Sidewall Clearance Requirements

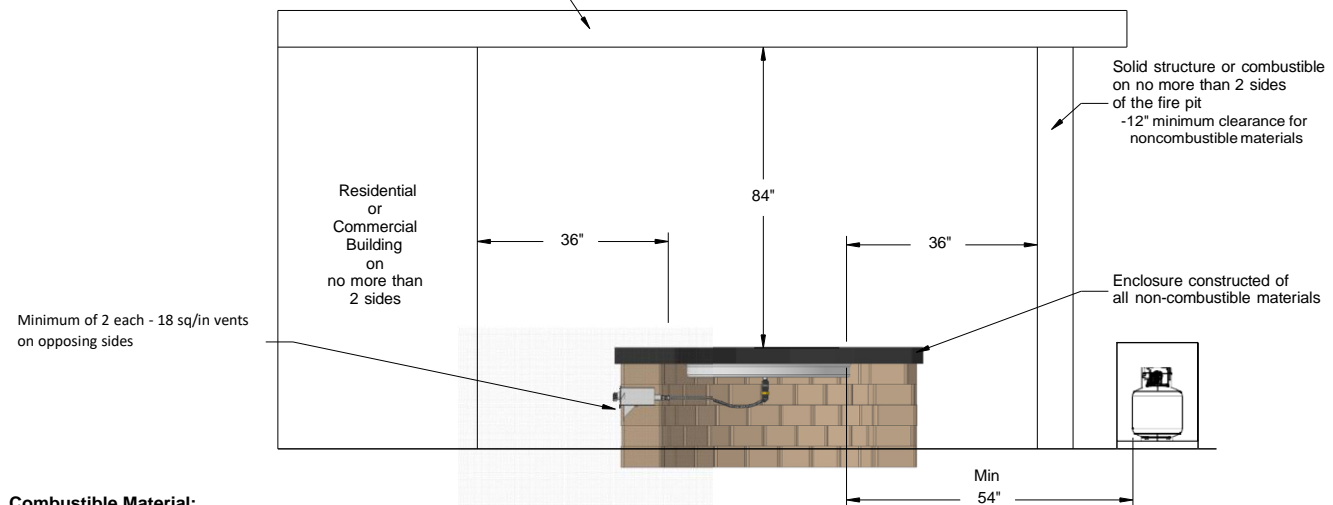
It is important to review the clearance requirements below for any type of overhead structure such as pergola, roof, overhang, screens, arbor, etc. or a sidewall to ensure that the distances are met. Figures 4.1 and 4.2.



4 Overhead Structures and Sidewall Clearance Requirements

**Figure 4.2 – Up to 100,000 BTU: LP Tank
For Outdoor Use Only – Select Models Only**

Overhead structure to include:
(roof, overhang, pergola, or screen)
for products up to 100,000 BTU.



Combustible Material:
-For direct install on decking, joist and trusses
see Deck Installation Kit drawing and instructions


Diagram illustrates common clearance questions. * Clearance from overhead structure * Clearance from structure/combustible All items may or may not apply to your project. Clearances apply to all sides of the project. Read and follow all instructions and local codes	DRAWN	DATE	Clearance LP tank fire pit up to 100k BTU  HPC® Hearth Products Controls		
	CHECKED	2/22/2018			
	QA				
	MFG		SIZE A	FSCM NO.	DWG NO.
	APPROVED		: ALE		SHEET

Table 4.2 – Clearances for LP tank fire pit up to 100k BTU

5 Fire Pit Enclosures Requirements

Location and design

- The enclosure must be installed above-grade and allow for drainage to prevent water damage to fire pit.
- Refer to cut sheets on our website for important dimensional information for your fire pit. Visit www.hpcfire.com
- The fire pit assembly should be recessed a minimum of two inches from the top of the enclosure to protect flame from being blown out.
- It is recommended that material such as granite, marble or other dense stone be kept away from heat and especially flame due to risk of cracking. Manufacturer is not responsible for damage.
- The enclosure must be constructed on a stable surface and be level. HPC recommends the use of the installation collar (optional) that may be mortared into or sandwiched between layers of the enclosure.
- The weight of the fire pit must be supported by the pan and not by any control/valve box.
- HPC recommends that the pan lip is recessed on a trough (linear), and large round enclosures, Figure 5.1. **NOTE:** HPC cannot guarantee the lip on all our products will be perfectly flat and will not warp due to heat.
- There must be a minimum of 2 inches under the valve box for proper ventilation and drainage, see clearance drawings on page 8 and 9.
- The product must be accessible for service.



Figure 5.1 – Pan lip recessed on a trough.

5 Fire Pit Enclosures Requirements

Construction materials

- Use non-combustible materials and construction for gas supply, power, and enclosure.
- The interior void space of the enclosure surrounding the valve box cannot be filled with any material (gravel, crushed rock, concrete, etc.).

Venting

- The enclosure must incorporate at least two vents to allow heat and or residual fuel to escape. Failure to properly vent the enclosure may result in the fire pit overheating or explosion.
- Some enclosures may require more ventilation based on material, size, and extended use.
- The vent may also work as a drain when installed at bottom sidewall to prevent water build up.
- Vent specifications:
 - A minimum of two vents (18 square inches for each vent) on opposing sides of the enclosure totaling 36 inches of free area are required (example: 3-inch x 6-inch or larger). Or multiple vents uniformly made throughout the enclosure totaling 36 square inches or more of free area are acceptable.
 - Installation of the vents in the mid-to-lower area of the enclosure is recommended.

Fuel line

- Fire pit must have a gas shutoff on the outside of the exterior of the fire pit to allow for emergency shut off and maintenance. The gas shutoff should not be used to adjust flame height.
- The installer is responsible for using the correct fuel line sizing that can supply the stated maximum BTU for the product—refer to product label on the fire pit for specifications.

6 Remote LP Tank System Enclosure Requirements - If Applicable

IMPORTANT

Only select models of Push-Button (FPPK) fire pits are permissible for small tank use. Please see the HPC product catalog, visit www.hpcfire.com, or contact your HPC dealer for details.

IMPORTANT

Locate the hose out of pathways to avoid accidental damage and prevent it from becoming a trip hazard.

For an enclosure using an LP tank system, follow these recommended specifications:

- You must follow local codes.

IMPORTANT

The remote LP tank / enclosure should be a minimum of 54 inches from the fire pit.

- One side of the enclosure shall be completely open: OR
- For an enclosure having four sides, a top, and a bottom:
 - At least two ventilation openings shall be provided in the side walls of the enclosure, located within 5 inches (127mm) of the top of the enclosure, equally sized, spaced at a minimum of 180 degrees, and unobstructed. The opening(s) shall have a total free area of not less than 1 in² lb. (14.2 cm²kg) of stored fuel capacity. See Figure 6.1.
 - Ventilation opening(s) shall be provided at the floor level of the enclosure and shall have a total free area of not less than 1/2 in² lb. (7.1 cm²kg) of stored fuel capacity. If ventilation openings at floor level are in a side wall, there shall be at least two openings. The bottom of the openings shall be 1 inch (25.4mm) or less from the floor level and the upper edge no more than 5 inches (127mm) above the floor level. The openings shall be equally sized, spaced at a minimum of 180 degrees and unobstructed. See Figure 6.1.
- Every opening shall have minimum dimensions to permit the entrance of an 1/8-inch (3.2mm) diameter rod.

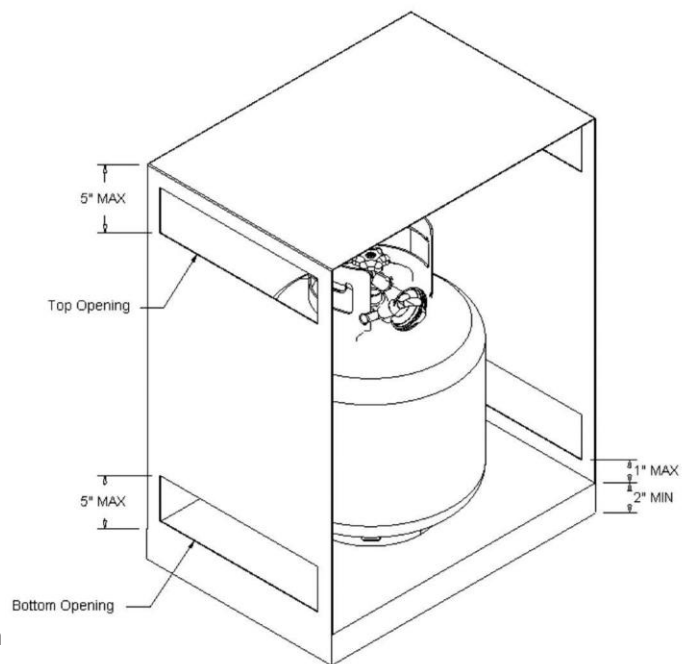


Figure 6.1 – Top and bottom side ventilation openings for LP tank enclosure.

6 Remote LP Tank System Enclosure Requirements - If Applicable

- Ventilation openings in sidewalls shall not communicate directly with other enclosures of the appliance. See Tables 6.1 and 6.2.

LP Tank Size	Top Opening	Bottom Opening
20 LB (9.1 KG)	20 in ² (130 cm ²)	10 in ² (65 cm ²)
30 LB (13.6 KG)	30 in ² (195 cm ²)	15 in ² (100 cm ²)

Table 6.1 – LP tank enclosure opening specifications by tank size.

LP Tank Enclosure Specifications
2 Openings for each top and bottom - 180° apart
From LP tank base to bottom of opening - Max. 1" (25.4mm)
From floor to base of LP tank - Min. 2" (50.8mm)

Table 6.2 – LP tank enclosure opening specifications.

- The cylinder valve shall be readily accessible for hand operation. A door on the enclosure to gain access to the cylinder valves is acceptable, provided it is non-locking and can be opened without the use of tools. Designs using a cover to gain access to the cylinder and cylinder valve shall be provided with handles or the equivalent at a minimum of 180 degrees apart to facilitate lifting of the cover.
- The enclosure for the LP-gas cylinder shall isolate the cylinder from the burner compartment to provide:
 - Shielding from radiation.
 - A flame barrier; and
 - Protection from foreign material.
- There shall be a minimum clearance of 2 inches (50.8mm) between the floor of the non-disposable LP-gas cylinder enclosure and the ground.
- The design of the enclosure shall be such that:
 - A non-disposable LP-gas cylinder can be connected, disconnected, and the connections inspected and tested outside the cylinder enclosure; and
 - Those connections, which could be disturbed when installing the cylinder in the enclosure, can be leak-tested inside the enclosure.

6 Remote LP Tank System Enclosure Requirements - If Applicable

Propane Cylinder: Safety Requirements

- This appliance has been designed for use with a 20-lb. or 30-lb. size propane cylinder (not supplied).
- The propane cylinder should be checked by your propane supplier prior to installation and use.
- Never use a cylinder with a damaged valve. A worn cylinder may be hazardous and should be checked by your propane supplier.
- Use only a propane supply cylinder constructed and marked in accordance with the specifications for LP gas cylinders by the National Standard of Canada, CAN/CSA B339, Cylinders, Spheres and Tubes for Transportation of Dangerous Goods; and Commission, as applicable or the Specifications for LP-Gas Cylinders of by the U.S. Department of Transportation (DOT).
- Do not store a spare LP-gas cylinder under or near this appliance.
- Never fill the cylinder beyond 80 percent full.
- Only use the pressure regulator and hose assembly provided with this appliance or replacement pressure regulators and hose assemblies as specified by the manufacturer. The regulator supplies a pressure of 11 inches water column to the appliance and has a QCC1 type fitting.

Propane cylinder specifications

- The propane cylinder must be provided with a cylinder connection device compatible with the connection for outdoor appliances.
- The propane cylinder must be supplied with a shut-off valve terminating in a propane cylinder valve type QCC1 and include a collar to protect the cylinder valve. A QCC1 cylinder has a positive seating connection, which will not allow gas to flow until a positive seal has been achieved. It is also equipped with an excess flow device. To attain full flow to the appliance, the valve must be in the off position when the cylinder valve is turned on.
- The propane cylinder must have a safety relief device having direct communication with the vapor space of the cylinder.
- The cylinder supply system must be arranged for vapor withdrawal.
- The cylinder shall incorporate listed overfill protection device (OPD).

6 Remote LP Tank System Enclosure Requirements – If Applicable

Locating the LP tank:

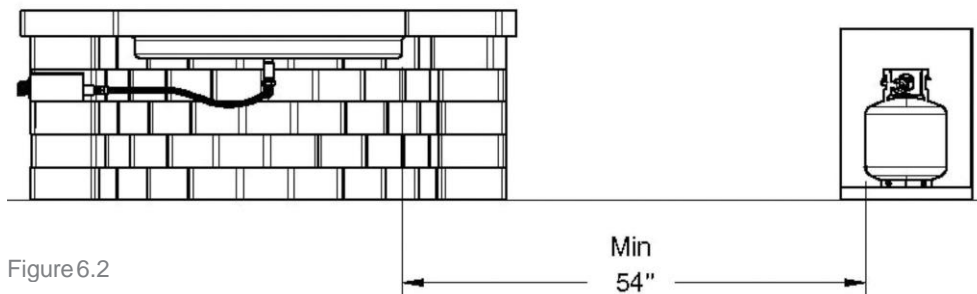


Figure 6.2

Securing the LP tank:

1. Fasten the L-bracket to the bottom of the propane tank using the nut and bolt (supplied). Ensure the nut is tight and will not loosen.
2. Select the location for the propane tank following the guidelines above, Figure 6.2.
3. Screw the bracket to the mounting surface. For concrete surface, use a concrete anchor (not supplied). Ensure that screw is tight so that the cylinder cannot move.

Connecting the Cylinder:

1. Ensure the gas regulator has no kinks and is smooth.
2. Remove the cap or plug from the cylinder fuel valve.
3. Insert the black QCC1 regulator nipple onto the QCC1 fuel valve and tighten until snug. Do not use tools.
4. Perform a leak test on all joints prior to using the gas appliance. A leak test must be performed annually and each time a cylinder is hooked up or if a part of the gas system is replaced.
5. Follow the instructions for natural gas hook-up if the appliance is to be connected directly to a house propane gas supply line.

WARNING

Failure to follow location and mounting guidelines for the LP tank could result in significant injury.

WARNING

- Locate the LP Tank and enclosure out of pathways to avoid accidental damage and prevent them from becoming a trip hazard.
- Locate the hose out of pathways to avoid accidental damage and prevent it from becoming a trip hazard.

WARNING

- Always ensure L-bracket is securely fastened to prevent the LP tank from tipping.

INSTALLATION

We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping.

7 Installing the Fire Pit

INSTALLATION

We suggest that our products be installed by professionals that are locally licensed by the authority having jurisdiction in gas piping.

IMPORTANT

To prevent damage, unhook the fire pit from the gas supply for pressure leak tests.

IMPORTANT

Burn Testing: It is the responsibility of the qualified installer to test for gas leaks at all connections.

IMPORTANT

Gas Plumbing Connections: Use joint compound or tape that is resistant to all gases. Apply joint compound only to all male pipe fittings. **DO NOT use on flex line flared fittings.** Be sure to tighten every joint securely.

- Perform all leak tests with leak detector or leak reactant.

Installation Steps:

1. Set fire pit in properly constructed enclosure, read **Section 5 – Fire Pit Enclosure Requirements**.
2. Position fire pit following safety recommendations with access to all gas connections for testing. Read **Section 3 – Selecting the Fire Pit Location** for more details.
3. Shut off gas supply to fire pit.
4. Connect fire pit to main gas supply. Warning: avoid sharp bends with flex line to prevent whistling.
5. Turn on gas supply, purge gas lines of air and perform leak test on all inlet connections. Repair as needed.
6. Light fire pit. It may take several cycles to purge air from the lines. Read **Section 9 – Operating the Fire Pit**.
7. Once fire pit is lit, perform leak test on all gas connections. Repair as needed.
8. Turn off fire pit and allow it to cool.
9. Apply media as described in **Section 8, Adding Approved Media**. When filling the pan with lava rock and/or decorative glass, the instructions in Section 8 must be followed.
10. Turn on fire pit again and perform leak test with media correctly installed. If gas leak is detected verify correct media application and repair as needed.
11. Verify correct operation and lighting.
12. Review safety manual with end-user. Instruct end-user that fire pit or media must not be changed or modified.
13. Leave manual with end user.
14. Apply the Start Up and Shutdown decal next to control box in an obvious and highly visible position.

IMPORTANT

For Penta Burner inserts, flame will be smaller with no media on the burner.

8 Adding Approved Media



WARNING

FOR GLASS MEDIA USAGE WITH LP GAS- WHEN USING APPROVED DECORATIVE GLASS TO COVER BURNER APPLY ONLY ENOUGH TO HIDE BURNER. APPLYING OVER 1/2" MAY CREATE BACK PRESSURE AND GAS LEAKAGE FROM AIR MIXER RESULTING IN LP POOLING UNDER FIRE PIT.



WARNING

FOR GLASS MEDIA USAGE WITH LP GAS- THE UNIT MUST BE TESTED WITH MEDIA OVER BURNER FOR CONFIRMATION OF NO BACK PRESSURE CREATING GAS TO LEAK OUT OF AIR MIXER VENTURI HOLES. THIS MAY HAVE TO BE DONE PRIOR TO PLACING IN ENCLOSURE IF NO ACCESS DOOR.



WARNING

Never use any material that is non-porous or holds moisture such as gravel, pebbles, river rock, etc. When heated, non-porous material will not allow heated steam to readily escape which can break and cause personal injury or damage. Material that holds moisture can boil and fracture unexpectedly when exposed to heat.

• IMPORTANT

The fire pit is designed to use approved media correctly installed over the burner to achieve proper combustion.

- Never install a mesh or screen under the media.
- Media affects flame pattern. It is possible to create an unusual flame pattern that could damage your enclosure. Enclosure damage from an open flame fire feature is not covered under any warranty.

8 Adding Approved Media

Application of Approved Media

Please follow the instructions below to add the finishing touch to your fire pit.

Particular attention needs to be on the pilot assembly area.

Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.

Lava Rock Only Application

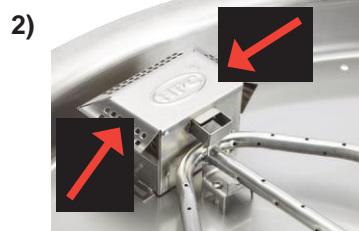
- 1) Install your fire pit per instructions.



- 2) Apply lava rock ONLY deep enough to cover ring.



- 1) Blowout Box: Leave vents open. Do not cover vents with lava rock or allow any rock to block flame opening. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



Do not cover box vents!

Decorative Glass Application

- 1) Install your fire pit per instructions.



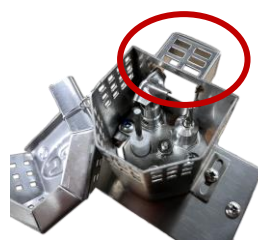
- 2) Fill pan with media. Cover burner with 1/4 to 1/2 inches of glass. Do not overfill pan with glass. All LP installations must be checked for back pressure with media installed. Failure to do so may result in personal injury or property damage.



- 3) Blowout Box: Do not cover blowout box vents or opening with glass. Incorrect media installation will cause the pilot flame to suffocate and turn off pit or delay main burner ignition.



Do not cover box vents!



Do not cover pilot opening!

9 Operating the Fire Pit

- Before use, be sure to test all gas connections for leaks. Do not use fire pit if there is any evidence of leaking gas. If leaking gas suspected, turn off the main gas supply and repair immediately.
- Do not use the enclosure as a seating area. Wind and gusty conditions will affect the flame in an unpredictable manner. If conditions exist that are not safe for patrons, turn off the fire pit.
- The hose should be inspected before each use of the fire pit and replaced prior to use if there is evidence of excessive abrasion or wear or if the hose is damaged. The replacement hose assembly shall be that specified by the manufacturer.
- Do not use the fire pit if any part has been under water. Immediately call a qualified service technician to inspect the fire pit and to replace any part of the control system and any gas control that has been under water.
- Never use any material that is non-porous and holds moisture such as gravel, pebbles, river rock, etc. This material, when heated will cause the trapped moisture to boil and fracture unexpectedly. This material is not sufficiently porous to allow heated steam to readily escape which can break and cause personal injury or damage.
- 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. Clothing or other flammable materials should not be hung from the appliance or placed on or near the appliance. Keep the appliance area free from gasoline, and other flammable vapors and liquids.
- Fire pit is not for cooking.
- 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. See clearances in **Section 3 – Selecting the Fire Pit Location**.
- If lava rock is wet, allow the fire pit to burn for 45 minutes prior to coming within 15 feet of the fire pit.
- When the fire pit is not in operation, turn off gas valve.
- When not in use, the fire pit must be always covered.

9 Operating the Fire Pit

FPPK Push-Button Flame Sensing Start-up

1. STOP! Read the safety information on "If you smell gas," **Section 1 – Important Safety Information**.
2. Ensure fire pit is clear of people and debris. Remove any covers and the fire pit is safe to start.
3. Turn gas supply valve to fire pit to ON position
4. Rotate gas valve knob counterclockwise to pilot light position
5. Depress and hold the valve knob.
6. Turn ON spark igniter by depressing switch in short burst until pilot lights.
7. Once lit, release switch for spark igniter while continuing to depress valve knob for 20 seconds.
8. Turn knob counterclockwise to light main burner.

NOTE: If the burner fails to light, wait 5 minutes for gas to clear, then repeat steps 3-8.

9. Ensure fire pit, children and patrons are supervised by a responsible adult who is familiar with emergency shutdown.
10. Flammable materials should not be placed on or near the fire pit.

This product is intended to be connected to fixed piping systems or an LP small tank (only on select models).



DANGER

If you smell gas:

- 1) Shut off gas to appliance.
- 2) Extinguish any open flame.
- 3) If odor continues, keep away from appliance and immediately call gas supplier or fire department.

FPPK Shutdown

1. Turn "off" fire pit by slightly pressing and turning valve clockwise to "OFF" position, Figure 9.1.
2. Slightly push in and turn clockwise to extinguish pilot, Figure 9.2.
3. Turn off main gas valve to fire pit.
4. After fire pit has cooled, cover fire pit.



Figure 9.1



Figure 9.2

10 Maintaining the Fire Pit

- Any guard or protective device removed for servicing must be replaced prior to operating the fire pit.
- We suggest that our products be serviced annually by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.
- Ensure gas is shut off and fire pit is cool before servicing.
- Keep fire pit always covered when not in use and free of debris.
- In some areas of the country, spiders or insects have been known to build nests and/or lay eggs in the venturi holes of the air-mixer for LP units. This can cause fuel to fill the fire feature cavity and result in personal injury or property damage. Periodic inspection by a qualified service technician of the air-mixer is required to ensure your fire feature performs properly, Figure 10.1.
- **Burner Cleaning: One time a year.** If flames exhibit any abnormal shapes or behavior, or if burner fails to ignite properly, then the burner holes 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 from base, logs, and fire ring itself. If evidence of damage, fire ring must be replaced with fire ring specified by the manufacturer.
- **Thermocouple cleaning of soot: Once every six months or as needed.** Remove lava rock & glass around pilot, then the blowout box lid. Clean thermocouple of any soot using soft brush. Be careful not to damage hot wire element. Place lava rock or glass back as explained in **Section 8 – Adding Approved Media.**
- **Visually inspect the pilot.** The pilot flame should cover 3/8 inch to 1/2 inch of the thermocouple, Figure 10.2. Cleaning of the pilot orifice may be required by removing pilot hood counterclockwise and removing orifice.

Service



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.



Figure 10.1 – Locating orifice for cleaning



Figure 10.2 – Pilot flame coverage of thermocouple.

10 Maintaining the Fire Pit

Installing / Changing Batteries to Spark Igniter Unit in Valve Box

Carefully unscrew the spark igniter unit cap, Figure 10.4.

1. Remove cap with battery counterclockwise
2. Remove old battery from cap, install new battery
3. Holding by cap, slide battery into spark igniter unit.
4. Tighten cap lightly clockwise- DO NOT over tighten.



Figure 10.4

11 Troubleshooting

Table 11.1 below indicates some potential causes and countermeasures to the symptoms indicated in bold type. **Please contact your retailer or certified technician for service and repair.**

Service



We suggest that our products be serviced by a professional certified in the US by the National Fireplace Institute (NFI) as NFI Gas Specialists.

Problem	Possible Causes	Solution
Pilot Will Not Light	Air in gas line	New install - may take several attempts
		Check gas level of LP tank
	No gas flow - gas not ON or line obstruction	Confirm gas is ON upstream
		Debris in line: insulation, dirt, plastic, etc.
	Pilot orifice dirty or clogged	Remove orifice and clean (Section 10)
Pilot will not light with spark igniter but will light with a match	Dead or incorrectly installed battery	Replace properly with good AA battery (Section 10)
	Spark igniter dirty	Clean using soft brush
	Improper gap at electrode tip	The gap can be adjusted by bending the tip in or out while holding electrode stable above ceramic block to achieve spark
Pilot will not stay lit when control knob released	Knob not being held in long enough	Thermocouple must have time to heat up. Hold the knob in for 30 seconds after pilot lights.
	Small pilot flame: pilot orifice dirty or clogged	Remove pilot orifice and clean
	Dirty thermocouple	Clean using soft brush (Section 10)
	Faulty thermocouple or valve	Replace thermocouple or valve
Burner will not stay lit	Gas pressure improper	Confirm proper gas pressure (See Section 1 – Important Information for Installers)
	Burner obstructed	Confirm no water or debris in burner
	Improperly applied or too much media	Re-apply media (Section 8)
	Too windy	Use when less windy or with our wind guard (See page 24, Figure 12.1)
Low flame when turned to High	Gas pressure improper	Confirm proper gas pressure (See Section 1 – Important Information for Installers)
	Propane (LP) - Improper lighting procedure	Fire pit valve must be OFF when tank is turned ON. Turn ON tank slowly to allow pressure to equalize
	Lack of gas	Check gas level of LP tank
	Supply hose is pinched	Reposition supply hose as necessary
	Natural Gas (NG) - undersized gas supply line	Gas pipe, flex line, shutoff valve, etc. must be sized to deliver fire pit input pressure & BTU requirement
Flame is creating large amount of soot	Propane (LP) - mesh spider guard or venturis are blocked with debris - grass, dirt, etc.	Thoroughly clean spider guard - (Section 10)
Noise when lit	Whistling - flex line bent too sharp	Re-route flex line to reduce bend
	Propane (LP) - Humming regulator	Not a defect - normal occurrence on hot days due to internal vibrations in regulator

Table 11.1 – Troubleshooting

12 Compatible Accessories

- **Fire pit cover** – Hearth Products Controls has decorative copper covers and heavy-duty vinyl covers for your fire pit that will protect it from rain, snow, and moisture. See Figure 12.1.

For a complete list of accessories, visit www.hpcfire.com



Figure 12.1 – Fire pit cover

13 Replacement Parts

Please contact your dealer for parts – if unsure please contact HPC or visit our website at www.hpcfire.com and we will be happy to help you

14 Warranty

Warranty

Hearth Products Controls Co. (HPC) warrants fire pits against manufacturing defects that prevent safe and correct function as follows:

1) **Stainless Steel Fire Pit and Outdoor Fireplace Burners - Lifetime Warranty**

Limited Warranty:

- 2) Electronics, Gas Valve: Commercial-1 year; Residential-3 year.
- 3) Pilot Assembly: Commercial-1 year; Residential-2 year.
- 4) Stainless Steel Pan, Valve Box: Commercial-1 year; Residential-5 years

Warranty commences from the date of original sale / shipment from HPC FOB Dayton, Ohio. This warranty is for parts and in-house (HPC) labor. The defective product must be sent back to HPC with a Return Merchandise Authorization (RMA) issued by HPC for that specific product and any other additional information for the nature of the defect or warranty claim. The warranty does not cover items that have been damaged by overheating, modification, abuse, or improper storage. Also, any labor involving installation or maintenance with the unit is not covered. This warranty excludes claims for consequential, indirect-collateral expenses arising from product defects or warranty recovery.

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FIRE INSPIRED™

Hearth Products Controls

Fire-inspired since 1975.

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For detailed product information, go to www.hpcfire.com