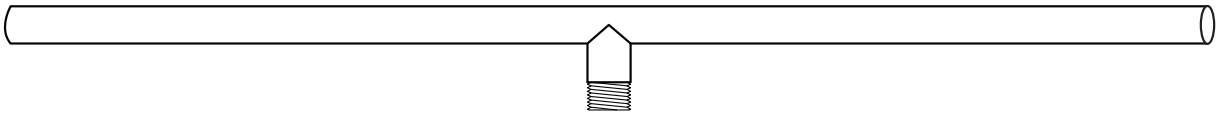
FIREGEAR® by earthcore®

**DO NOT DISCARD. THIS MANUAL HAS IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS. LEAVE WITH THE HOMEOWNER.**

**MODEL:**

**SERIAL #:**



# Outdoor Fire Pit T-Burners & Kits

**MODELS**

| T-Burner Only | Description | T-Burner Kit | Description | Natural Gas (NG) |
|---|---|---|---|---|
| FG-T-21SS | 21” T-Burner | FG-T-21SSK | 21” T-Burner Kit | 50,000 Btu’s |
| FG-T-27SS | 27” T-Burner | FG-T-27SSK | 27” T-Burner Kit | 50,000 Btu’s |
| FG-T-33SS | 33” T-Burner | FG-T-33SSK | 33” T-Burner Kit | 75,000 Btu’s |
| FG-T-45SS | 45” T-Burner | FG-T-45SSK | 45” T-Burner Kit | 100,000 Btu’s |
| FG-T-57SS | 57” T-Burner | FG-T-57SSK | 57” T-Burner Kit | 125,000 Btu’s |
| FG-T-69SS | 69” T-Burner | FG-T-69SSK | 69” T-Burner Kit | 150,000 Btu’s |
| FG-T-81SS | 81” T-Burner | FG-T-81SSK | 81” T-Burner Kit | 175,000 Btu’s |
| FG-T-93SS | 93” T-Burner | FG-T-93SSK | 93” T-Burner Kit | 200,000 Btu’s |

## Installation and Operating Instructions

**IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS DO NOT ATTEMPT TO INSTALL OR OPERATE THIS APPLIANCE**

These fire pit burners are manufactured from the factory for Natural gas only. If you intend using LP gas then you must purchase a LP conversion kit. See Table of Contents for LP conversion kit information.

## INSTALLATION PRECAUTION:

Fire pit burners require a minimum 18-square inches (per side) of cross ventilation in an enclosure. Failure to provide proper ventilation can void the warranty.

**Warning:** For Outdoor Use Only

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

**DANGER**

**CARBON MONOXIDE HAZARD**

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed area can kill you.

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

**DANGER**

If you smell gas:

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

**WARNING**

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

Any LP cylinder not connected for use shall not be stored in the vicinity of this or other appliances.

**WARNING**

Do not leave unattended during use.
Do not use for cooking.
Follow all gas leak procedures in this manual prior to operation.

**WARNING**

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

**WARNING**

If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

**FOR YOUR SAFETY**

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

Fuels used in gas fired appliances, and the products of combustion such as fuels, contain chemicals known to cause cancer, birth defects and/or other reproductive harm. This warning is issued pursuant to the California Health & Safety Code Sec. 25249.1

## CALIFORNIA PROPOSITION 65 WARNING

This product can expose you to Chromium, which is known to the state of California to cause cancer and birth defects or other reproductive harm.
(For more information, go to www.p65warnings.ca.gov)

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**CAUTION**

All media (i.e. lava rock, lava stones, lava boulders and fire glass) has the potential of thermal spalling. This is a process that 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 the fire feature.

**WE HIGHLY RECOMMEND COVERING ALL FIRE FEATURES WHEN NOT IN USE**

The use of a cover can lessen the impact of thermal spalling; however, heavy rains, high humidity and the presence of moisture may still cause the media to pop.

**ALWAYS USE CAUTION WHEN USING THE FIRE FEATURE**

Extra caution should be taken when lighting a fire feature when heavy rains, high humidity and moisture are present. Light the fire feature; leave the area allowing any moisture in the media to dissipate. We strongly recommend that during this drying out time that you monitor the fire feature from a distance. This drying out period should be no less than 30 minutes. Continue monitoring the flame from distance to ensure that all popping has ceased before fully enjoying the fire.

## SPECIFICATIONS

| **Models:**<br>T-Burner Only/ T-Burner Kit | Pan/Disc Depth | Burner Length | Min. Inside Pan Dimension | Ground Level | Side Wall | Combustible Ceiling | Combustible Floor | Center Hub Size |
|---|---|---|---|---|---|---|---|---|
| FG-T-21SS/ FG-T-21SSK | 2 ½" - 3" | 21" | 24" x 6" | 8" | 36" | 96" | 18" | ⅞"-1" |
| FG-T-27SS/ FG-T-27SSK | 2 ½" - 3" | 27" | 30" x 6" | 8" | 36" | 96" | 18" | ⅞"-1" |
| FG-T-33SS/ FG-T-33SSK | 2 ½" - 3" | 33" | 36" x 6" | 8" | 36" | 96" | 18" | ⅞"-1" |
| FG-T-45SS/ FG-T-45SSK | 2 ½" - 3" | 45" | 48" x 6" | 8" | 36" | 96" | 18" | ⅞"-1" |
| FG-T-57SS/ FG-T-57SSK | 2 ½" - 3" | 57" | 60" x 6" | 8" | 36" | 96" | 18" | ⅞"-1" |
| FG-T-69SS/ FG-T-69SSK | 2 ½" - 3" | 69" | 72" x 6" | 8" | 36" | 96" | 18" | ⅞"-1" |
| FG-T-81SS/ FG-T-81SSK | 2 ½" - 3" | 81" | 84" x 6" | 8" | 36" | 120" | 18" | ⅞"-1" |
| FG-T-93SS/ FG-T-93SSK | 2 ½" - 3" | 93" | 96" x 6" | 8" | 36" | 120" | 18" | ⅞"-1" |

**Table 1** Suggested pan sizes and clearance specifications

**Description:** T-burners are provided with a burner and Natural Gas (NG) orifice only (i.e. FG-T-21SS) and T-burner Kits are provided with T-burner, Natural Gas (NG) orifice, key valve assembly and flex line (i.e. FG-T-21SSK).
**Note:** An LP conversion kit must be ordered seperate.

**BEFORE INSTALLING A T-BURNER DETERMINE PAN SIZE TO BE USED:**
The T-Burners listed above are not provided with a burner pan for installation. You must provide an appropriate non-combustible burner pan to install the T-Burner. Suggested burner pans sizes in Table 1 are strictly recommended based on the T-Burner model size. The pans can be a rectanglar style pan or flat disc type. **NOTE:** It is recommended to use 304 Stainless Steel. Burner pans should have ¼" drainage holes to prevent standing water in pan and the center hole for burner connection should be ⅞" - 1" diameter for all sizes.

**CAUTION: DO NOT use stiff screen/perforated metal as a burner pan. Some gases are heavier than air and screen/perforated metal can allow gas to flow downward in an enclosure which could cause delayed ignition or explosions.**

| ***Model:***<br>H-Burner Only/ H-Burner Kit | ***NG Orifice*** | ***BTU's NG*** | ***LP Orifice*** |
|---|---|---|---|
| FG-T-21SS/ FG-T-21SSK | OAS-NG34 | 50,000 (14.65kW) | OAS-LP47 |
| FG-T-27SS/ FG-T-27SSK | OAS-NG34 | 50,000 (14.65kW) | OAS-LP47 |
| FG-T-33SS/ FG-T-33SSK | OAS-NG29 | 75,000 (21.98kW) | OAS-LP41 |
| FG-T-45SS/ FG-T-45SSK | OAS-NG22 | 100,000 (29.31kW) | OAS-LP35 |
| FG-T-57SS/ FG-T-57SSK | OAS-NG16 | 125,000 (36.63kW) | OAS-LP31 |
| FG-T-69SS/ FG-T-69SSK | OAS-NG11 | 150,000 (43.96kW) | OAS-LP29 |
| FG-T-81SS/ FG-T-81SSK | OAS-NG05 | 175,000 (51.29kW) | OAS-LP26 |
| FG-T-93SS/ FG-T-93SSK | OAS-NG02 | 200,000 (58.61kW) | OAS-LP22 |

**Table 2** Btu Specifications

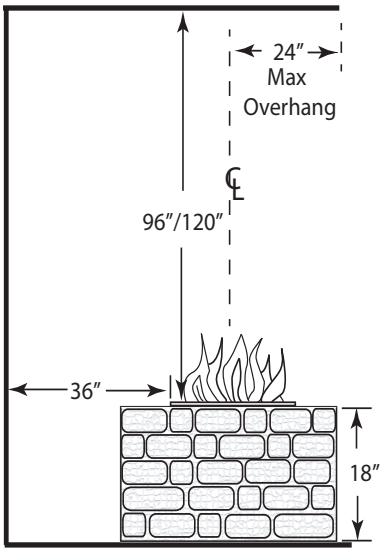



**Fig. 1**Clearance to combustibles

**Disclaimer:** Btu listings are based on 7.0"WC for Natural Gas and 11.0"WC for Liquid Propane (LP) at the burner orifice. Flex line size and proper gas pipe sizing will also affect Btu's. As a result your Btu's may vary slightly from Table 2 specifications.

| ***Pressure*** | **NG** | **LP** |
|---|---|---|
| Min. Inlet | 5.0" WC (1.24 kPa) | 10.5" WC (2.61kPa) |
| Max. Inlet | 10.5" WC (2.61kPa) | 13.0" WC (3.23kPa) |
| Normal Inlet | 7.0" WC (1.74kPa) | 11.0" WC (2.73kPa) |

**Table 3** Gas Pressures

## PREPARING A NON-COMBUSTIBLE STRUCTURE

The fire pit it so be installed on a flat, stable surface, away from any combustible materials. Install fire pit on any level, outdoor non-combustible enclosure, specified in this manual. **NOTE**: Do not place fire pit directly on grass, dirt, or rocks this may prevent proper ventilation in Fig. 3. In addition, do not recess the fire pit into the ground. **Ensure proper water drainage is also incorporated underneath the fire pit enclosure.**

### HARD PIPING TO FIRE PIT WITHOUT GAS PROXIMITY

**NOTE:** Refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing. See gas line sizing chart on page 6 as a reference.

1. Turn **OFF** gas supply system. **NOTE**: All gas connections (except for brass to brass) require the following. Clean pipe threads using either a wire brush or steel wool. Apply pipe sealant to the fittings before making any connection.
2. Ensure all gas connections are snug, but do not over tighten! **BE CAREFUL!**
3. Consult a plumber for proper installation to ensure you are providing adequate gas supply for your application.
4. The primary gas shut-off (not supplied) will require a ½" male flared fitting to enable connection of the stainless steel flex gas line supplied with the fire pit (see Fig. 7 page 10).
5. Do not place an LP tank inside any fire pit enclosure. Locate all propane (LP) tanks outside the enclosure.
6. To prevent performance problems in Propane (LP) fire pits, do not use a Propane tank less than 100lbs. capacity.

**WARNING:** Proper clearances from combustible materials must be maintained from all sides, top and bottom of this appliance. Use the specifications listed in Table 1 and Fig. 2 for proper clearance to combustibles.

**IMPORTANT**
Installation of Natural or LP gas should be done by a qualified installer, service agency or gas supplier.
This appliance must be isolated from the gas supply piping system by closing its manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½" psi (3.5kPa).

### HIGH ELEVATION INSTALLATION

This appliance is listed for elevations from 0-4500 feet in Canada and the U.S. If elevation exceeds 4500 feet it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4% for each 1000 feet beyond the 4500 feet above sea level. Check with your local gas utility for assistance in determining the proper orifice in your location. In some cases the heating value may already be reduced and downsizing the orifice may not be necessary.

### VENTILATION FOR NON-COMBUSTIBLE ENCLOSURE

Fire pits are subjected to many outdoor elements such as rain, snow, wind, heat or cold. **A minimum of 18 square inches (per side) of cross ventilation is required to keep the components in good working order.** Use Fig. 3 as guide to assist to incorporate proper ventilation.

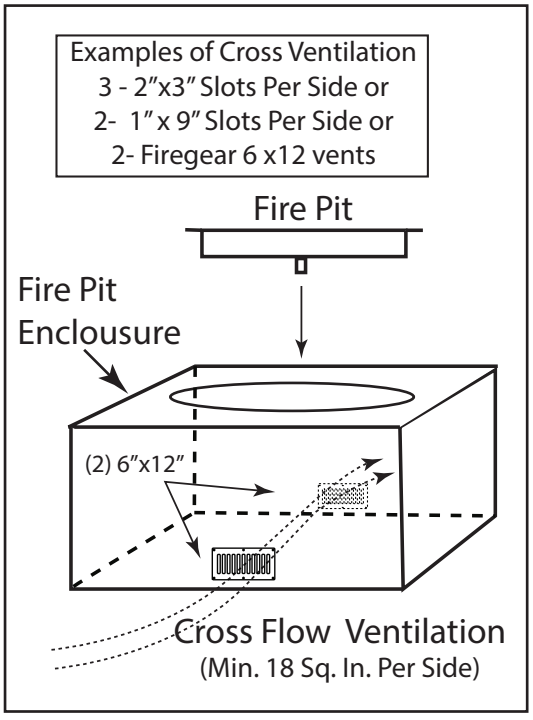



**Fig. 2** Cross Ventilation Example

# GAS PIPE SIZING CHART

## NATURAL GAS : PIPE SIZING CHART

| Length of Pipe in Feet | 1/2" | 3/4" | 1" | 1 - 1/4" | 1 - 1/2" | 2" | 2 - 2 1/2" | 3" | 4" |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 108 | 230 | 387 | 793 | 1237 | 2259 | 3640 | 6434 | - |
| 20 | 75 | 160 | 280 | 569 | 877 | 1610 | 2613 | 5236 | 9521 |
| 30 | 61 | 129 | 224 | 471 | 719 | 1335 | 2165 | 4107 | 7859 |
| 40 | 52 | 110 | 196 | 401 | 635 | 1143 | 1867 | 3258 | 6795 |
| 50 | 46 | 98 | 177 | 364 | 560 | 1041 | 1680 | 2936 | 6142 |
| 60 | 42 | 89 | 159 | 336 | 513 | 957 | 1559 | 2684 | 5647 |
| 70 | 38 | 82 | 149 | 317 | 476 | 896 | 1447 | 2492 | 5250 |
| 80 | 36 | 76 | 140 | 239 | 443 | 840 | 1353 | 2315 | 4900 |
| 90 | 33 | 71 | 133 | 275 | 420 | 793 | 1288 | 2203 | 4667 |
| 100 | 32 | 68 | 126 | 266 | 411 | 775 | 1246 | 2128 | 4518 |
| 125 | 28 | 60 | 117 | 243 | 369 | 700 | 1143 | 1904 | 4065 |
| 150 | 25 | 54 | 105 | 215 | 327 | 625 | 1008 | 1689 | 3645 |
| 175 | 23 | 50 | 93 | 196 | 303 | 583 | 993 | 1554 | 3370 |
| 200 | 22 | 47 | 84 | 182 | 280 | 541 | 877 | 1437 | 3160 |
| 300 | 17 | 37 | 70 | 145 | 224 | 439 | 686 | 1139 | 2539 |

- Natural Gas (NG) flow is given in thousands of BTU/hr. = 1 cubic foot of NG gas - 1000 BTU
- Nominal pressure at the burner for Natural Gas is 3.5" of water column. (Typical machine supply 5"-7")
- Pipe length must include additional length for all fittings. Add approximately 5 feet of pipe per fitting.
- Natural Gas Example: A machine with a burner that requires 440,000 BTU would need a 1 -1/4" pipe for a 20" long run.

## LIQUID PROPANE : PIPE SIZING CHART

| Length of Pipe in Feet | 1/2" | 3/4" | 1" | 1 - 1/4" | 1 - 1/2" | 2" | 2 - 2 1/2" | 3" | 4" |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 275 | 567 | 1071 | 2205 | 3307 | 6221 | 10140 | 17990 | 35710 |
| 20 | 189 | 393 | 732 | 1496 | 2299 | 4331 | 7046 | 12510 | 25520 |
| 30 | 152 | 315 | 590 | 1212 | 1858 | 3465 | 5695 | 10110 | 20620 |
| 40 | 129 | 267 | 504 | 1039 | 1559 | 2992 | 4778 | 8481 | 17300 |
| 50 | 114 | 237 | 448 | 913 | 1417 | 2646 | 4343 | 7708 | 15730 |
| 60 | 103 | 217 | 409 | 834 | 1275 | 2394 | 3908 | 6936 | 14150 |
| 70 | 89 | 185 | 346 | 724 | 1086 | 2047 | 3329 | 5908 | 12050 |
| 80 | 78 | 162 | 307 | 630 | 976 | 1811 | 2991 | 5309 | 10830 |
| 90 | 69 | 146 | 275 | 567 | 866 | 1606 | 2654 | 4711 | 9613 |
| 100 | 63 | 132 | 252 | 511 | 787 | 1496 | 2412 | 4281 | 8736 |
| 125 | 54 | 112 | 209 | 439 | 665 | 1282 | 2083 | 3618 | 7382 |
| 150 | 48 | 100 | 185 | 390 | 590 | 1138 | 1808 | 3210 | 6549 |
| 175 | 43 | 90 | 168 | 353 | 534 | 1030 | 1637 | 2905 | 5927 |
| 200 | 40 | 83 | 155 | 325 | 491 | 947 | 1505 | 2671 | 5450 |
| 300 | 37 | 77 | 144 | 303 | 458 | 887 | 1404 | 2492 | 5084 |

- Liquid Propane (LP) Gas flow is given in thousands of BTU/hr. = 1 cubic foot of LP gas - 2500 BTU.
- This chart refers to low pressure LP, after regulation, Standard nominal pressure at the burner for Liquid Propane Gas is 11" of water column.
- Pipe length must include additional length for all fittings. Add approximately 5 feet of pipe per fitting.
- LP Example: A machine with a burner that requires 440,000 BTU would need a 1" pipe for a 20' long run.

NOTE: The sizing charts above list the specific pipe sizes required for the amount of BTU's for a new gas line installations. If you are using an existing gas line you must take into consideration the existing gas line capacities to ensure you will have proper pressure. This chart is for reference only, we recommend you consult with a Licensed Plumber/Gas Fitter or NFPA54 (National Fuel Gas Code - current edition) for more details.

**Table 4** Gas Pipe Sizing Chart

# INSTALLATION OF FIRE PIT INTO AN APPROVED ENCLOSURE

**REQUIREMENTS**

1. Only non-combustible materials should come in direct contact with any part of the fire pit. Underneath area should be non-combustible or a flat level combustible surface according to the clearances specified in this manual.
2. Refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing. Determine the size of the fire pit you are preparing to install (Refer to page 6, Table 4).
3. Determine the size of the round or square fire pit you are preparing to install (Refer to page 4).
4. You must provide a round or square opening out to place the fire pit into the non-combustible enclosure. A minimum burner pan dimension is listed in Table 1.
5. Follow the local code requirements for the gas type being used. This fire pit should be installed in accordance with local codes and ordinances or in the absence of local codes, with the latest National Fuel Gas Code, ANSI Z223.1 NFPA54 or CSA B149.1, Natural and Propane Installation Code in Canada.
6. Fire pits create high temperatures, it is very important to have any combustibles at a safe distance.
7. Do not fill the enclosure with gravel, rock or sand. The enclosure requires free flowing air underneath to keep enclosure cool, provide ventilation to prevent moisture, and provide an outlet for gas in the case of a gas leak.
8. **CAUTION: A minimum of 18 square inches of cross ventilation (opposite sides) is required to keep the enclosure dry.**
9. These products are designed for outdoor use only. **Not approved for any indoor use or any enclosed space.**
10. This fire pit is designed to have AMD Direct lava rock or glass media completely covering the burner tube, so that the burner is not visible. Do not cover more than 1” above the top of burner. Use lava rock a minimum of 1” diameter as a base to fill the burner pan. DO NOT USE STONE OR RIVER ROCK.
11. Gas lines and fittings must be installed in to the non-combustible structure. All gas connections must be leak tested before installation of the fire pit. Soapy water leak detection is required before regular use of the fire pit.
12. Do not use material that will absorb moisture over time and will not release this moisture quickly. Moisture can boil in this material and can rapidly break apart and cause damage or personal injury.
13. Never leave any other combustible material on top of the fire pit. This could cause unsafe operation of this system and damage to the component that will not be covered under our warranty.
14. **Ensure proper water drainage is also incorporated into the fire pit enclosure.**

## T-Burner ASSEMBLY

**CAUTION:** Do not assemble the OAS and U3-8D-S until you are ready to install the T-Burner into the burner pan. The OAS is 1½" in diameter and would not fit the recommended center hole size per Fig. 6 and Fig. 9.

**ALL T-BURNER MODELS**

Before you begin installing the T-Burner into a burner pan ensure the center hole is 7/8" to 1-inch in diameter (See Fig. 6). **Ensure to seal the burner nipple and each NPT fitting with thread tape or pipe compound. NOTE:** Flared fittings will not require tape or compound on the flared side.

**Step 1:** Install the T-Burner through the pan (See Fig. 4) then install the OAS and U3-8D-S to the nipple connect inlet gas line as shown in Fig. 5.

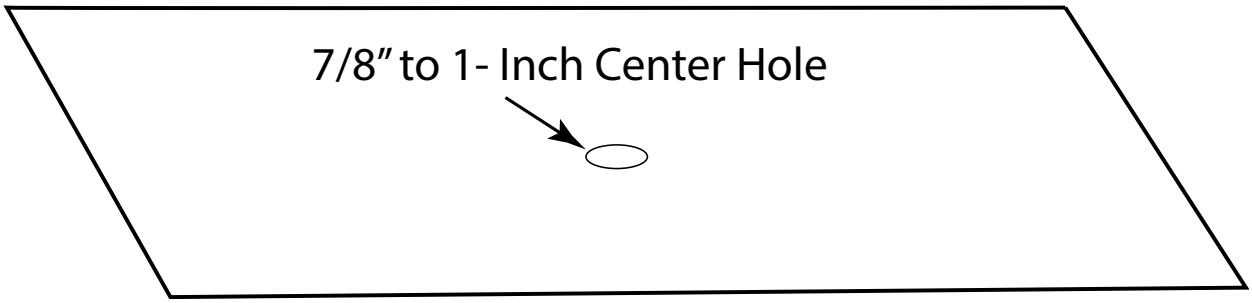



**Fig. 3** Minimum center clearance hole in burner pan.

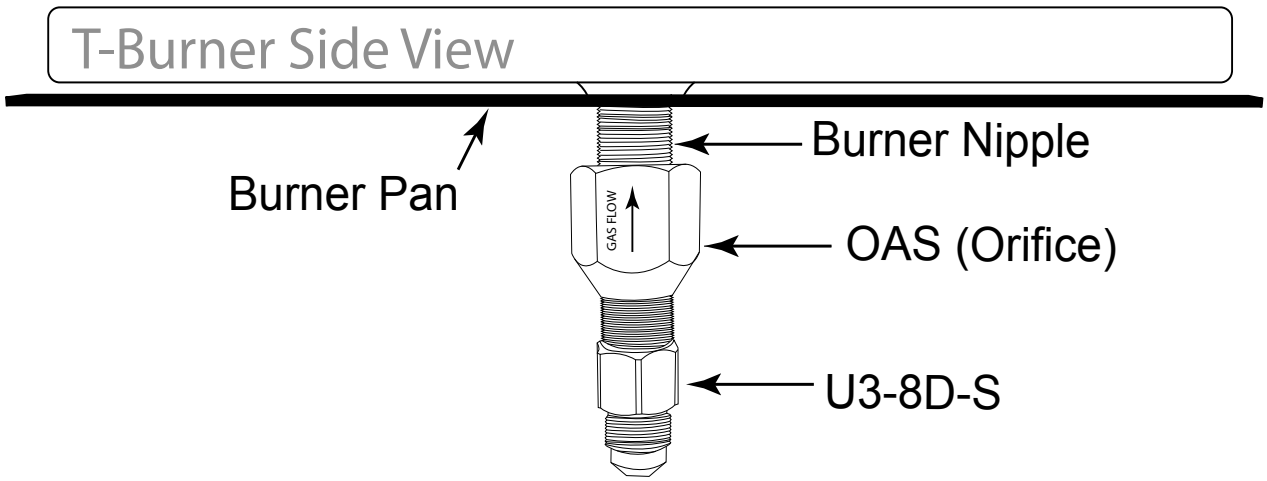



**Fig. 4** T-Burner Installed into Burner pan/disc.

## INSTALLING KEY VALVE

**Note:** If you did not order a T-Burner kit with a key valve assembly you will need to provide a key valve for the installation or order one from AMD Direct. See replacement parts list in manual for model numbers.

The key valve contents: 1- key valve, 1- key and 1- flange. (See Fig 6). The valve requires a 1¼" round clearance hole in the non-combustible enclosure wall. See the instructions supplied with the key valve for more specific details.
**Note**: Be sure to leak test all fitting before operation. Fig. 7 on page 10 shows an example of a typical installation.

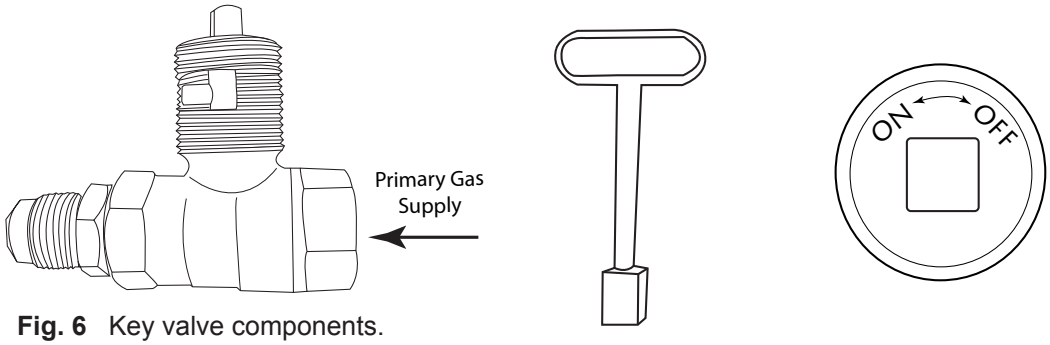
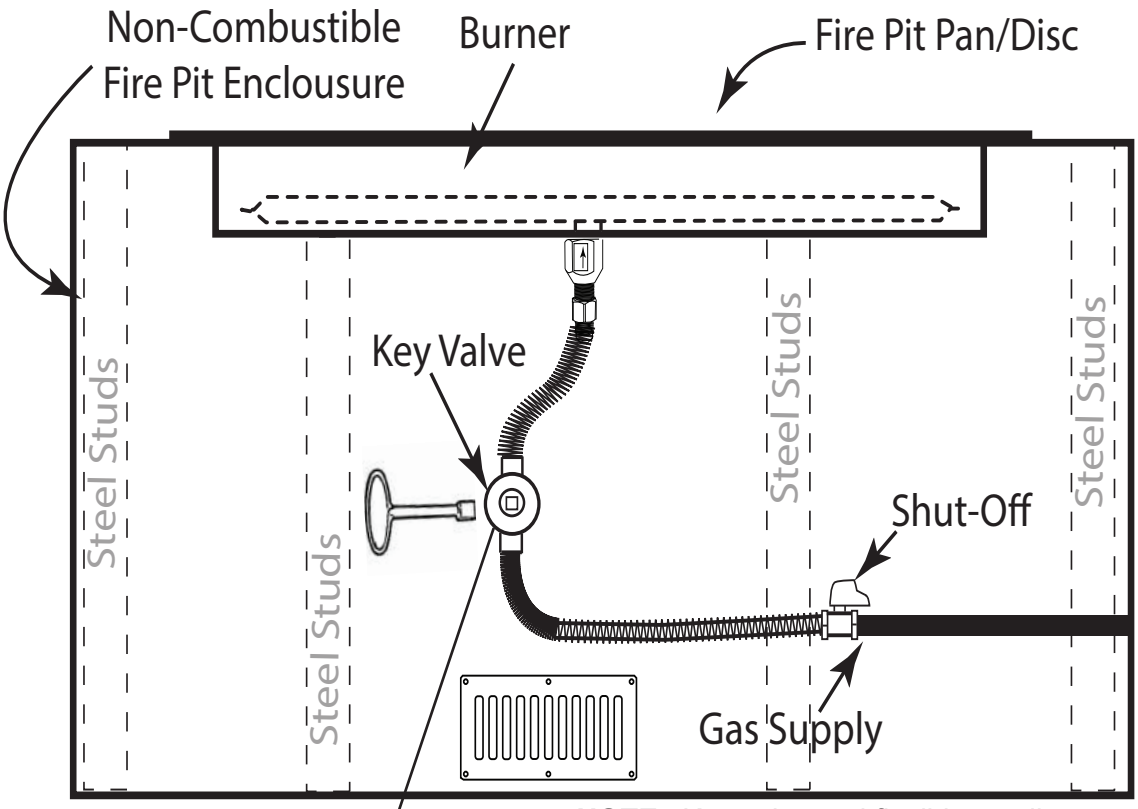


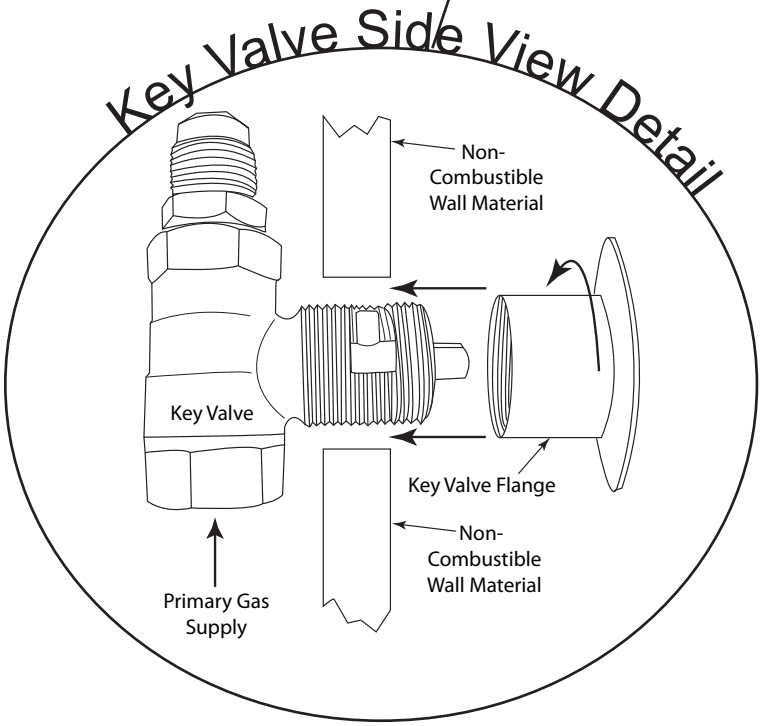

**Fig. 6** Key valve components.

**INSTALLATION OF LAVA ROCK/MEDIA INTO BURNER PAN**

Install lava rock into the burner pan. Ensure the lava rock is a 1-inch diameter for proper operation. **Note:** Do not pour Lava Rock directly from bag. It should be placed naturally and NOT packed in tight. Loose fitting is important to ensure robust flames. Be sure rocks are free of any excessive dust. This prevents the burner pan weep holes from being plugged and holding water. Cover the burner completely with media but do not make the depth greater than 1-inch over top of the burner portholes. Other approved AMD Direct media such as glass or Lava Stones can also be used.
**MEDIA MUST BE USED DURING OPERATION OF FIRE PIT AT ALL TIMES.**




**NOTE**: Key valve and flexible gas lines are supplied. Gas shut-off is not supplied.




**Note:** A 1¼" x 2" black iron or galvanized coupler/nipple (not supplied) can be used as a spacer between the manual valve and the valve flange to add additional support to hold the manual key valve in place.

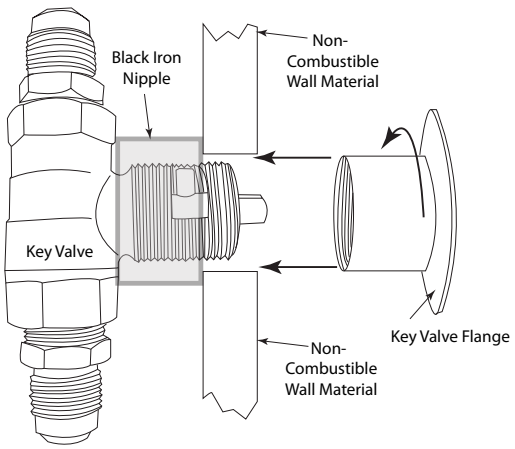



**Fig. 5** Typical installation.

## OPERATION

**CAUTION**: Children and adults should be alerted to the hazards on high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the area of the appliance.

**WARNING:** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of control system and any gas control, which has been under water.

**SAFETY WARNINGS**

1. Never leave the fire pit unattended during operation.
2. Clothing or other flammable materials should not be placed on or near the appliance.
3. Any guard or other protective device removed for servicing the appliance must be replaced prior to operating the appliance.
4. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative the control compartment, burners and circulating air passageways of the appliance be kept clean.
5. Inspect the fuel supply connection before each use of the appliance.
6. Temporary storage of this appliance indoors is permissible only if it has been disconnected from its fuel supply (Natural or L.P. gas line).

**WARNING**

1. This appliance is hot when operated and can cause severe burns if contacted.
2. Do not burn any solid fuels in this appliance.

## LIGHTING INSTRUCTIONS

**READ ALL WARNING AND SAFETY INFORMATION ABOVE BEFORE ATTEMPTING TO LIGHT FIRE PIT**

**CAUTION**: Ensure you have leak tested the fire pit before operating.

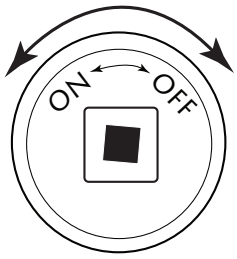



**Fig. 8** Key valve flange

**TURNING ON FIRE PIT**

1. Insert key into shut-off valve and secure into square end (See Figs. 8-10).
2. Light a long match or butane lighter and hold it near the burner (see Fig. 10).
3. Turn the key slowly counter-clockwise in key valve (ON position) to allow gas to flow and simultaneously apply the long burning match or Butane lighter as close to the end burner as possible to light the fire pit.
4. Gas should ignite within 10 seconds or less. If fire pit does not light within 10 seconds turn key clockwise to turn **OFF** the gas supply. Ensure there is not too much media on top of the burner that might inhibit gas flow and try again in 5 minutes.

**TURNING OFF FIRE PIT**

1. Insert key into shut-off valve and secure into square end.
2. Turn key clockwise until it stops.
3. After cooling off install cover.

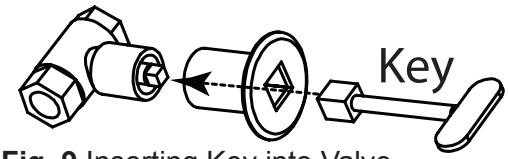



**Fig. 9** Inserting Key into Valve

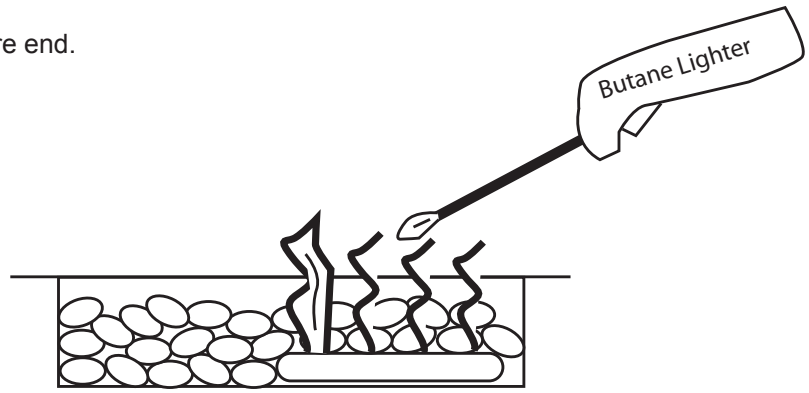
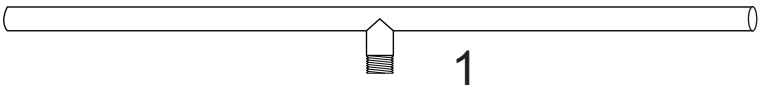
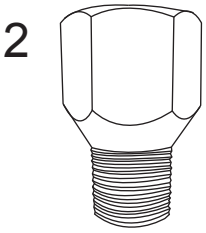
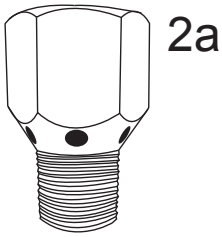
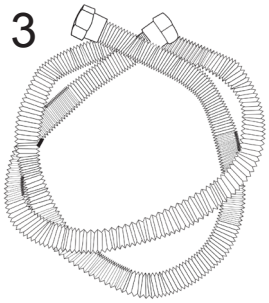



**Fig. 10** Lighting fire pit with lighter

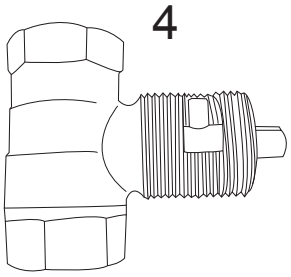


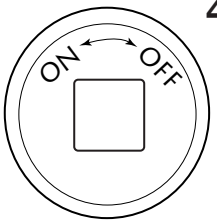



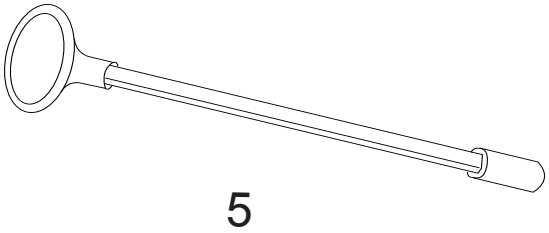



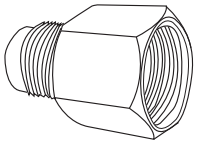



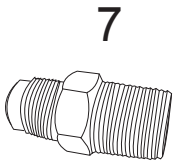

**Drawings not to scale**



## REPLACEMENT PARTS

| Item | Description | Qty. | Part Number |
|---|---|---|---|
| 1 | 21” T-Burner Burner Only (used with FG-T-21SS or FG-T-21SSK) | 1 | 10615 |
| 1 | 27” T-Burner Burner Only (used with FG-T-27SS or FG-T-27SSK) | 1 | 10600 |
| 1 | 33” T-Burner Burner Only (used with FG-T-33SS or FG-T-33SSK) | 1 | 10601 |
| 1 | 45” T-Burner Burner Only (used with FG-T-45SS or FG-T-45SSK) | 1 | 10602 |
| 1 | 57” T-Burner Burner Only (used with FG-T-57SS or FG-T-57SSK) | 1 | 10603 |
| 1 | 69” T-Burner Burner Only (used with FG-T-69SS or FG-T-69SSK) | 1 | 10612 |
| 1 | 81” T-Burner Burner Only (used with FG-T-81SS or FG-T-81SSK) | 1 | 10617 |
| 1 | 93” T-Burner Burner Only (used with FG-T-93SS or FG-T-93SSK) | 1 | 10618 |
| 2<br>2a | OAS (Orifice Air Shutter) for Natural Gas or LP Gas Fire Pits | 1 | Refer to Table 2 on page 4 |
| 3 | 1/2” Flex Gas Line (46-inch Length) (used with all kits) | 1 | T200-9898-46 |
| 4 | High Capacity Key Valve | 1 | BVL2S |
| 4a | Chrome Plated Flange Cover (used with BVL2S key valve) | 1 | CVR-BVL2CP |
| 5 | 8-inch Chrome Key (used with all key valves) | 1 | 8” or 12” |
| 6 | ½” Flare to 1½” FIP Fitting (used with all DBS Kits) | 1 | 48-88 |

See the AMD Direct catalogue for a variety of fittings and flex connectors also available.

| *Converstion Kit* | *Common Parts* | *Btu Ratings* | *LP Orifice* | *T- Burner Model* |
|---|---|---|---|---|
| OAS-LPK47 | S499-8,113-SS4-D5, U3-8D-S | 50,000 (14.65kW) | OAS-LP47 | FG-T-21SS, FG-T-21SSK FG-T-27SS, FG-T-27SSK |
| OAS-LPK41 | S499-8,113-SS4-D5, U3-8D-S | 75,000 (21.98kW) | OAS-LP41 | FG-T-33SS, FG-T-33SSK |
| OAS-LPK35 | S499-8,113-SS4-D5, U3-8D-S | 100,000 (29.30kW) | OAS-LP35 | FG-T-45SS, FG-T-45SSK |
| OAS-LPK31 | S499-8,113-SS4-D5, U3-8D-S | 125,000 (36.63kW) | OAS-LP31 | FG-T-57SS, FG-T-57SSK |
| OAS-LPK29 | S499-8,113-SS4-D5, U3-8D-S | 150,000 (43.96kW) | OAS-LP29 | FG-T-69SS, FG-T-69SSK |
| OAS-LPK26 | S499-8,113-SS4-D5, U3-8D-S | 175,000 (51.28kW) | OAS-LP26 | FG-T-81SS, FG-T-81SSK |
| OAS-LPK22 | S499-8,113-SS4-D5, U3-8D-S | 200,000 (58.61kW) | OAS-LP22 | FG-T-93SS/ FG-T-93SSK |

**Table 6** LP conversion chart

When converting Burners to LP gas the main burner orifice must be kept a minimum of 6-inches away from the burner connection (nipple) to prevent any back pressure at the LP orifice. See Fig. 11 below for details. **Note**: It is acceptable to install a 90° elbow, if necessary, to run the gas line the opposite direction (see Fig 12 or 13). A 90° elbow or close nipple are not provided with the kit.

All NPT pipe threads must be sealed with approved gas Teflon tape or pipe compound.
Check for any gas leaks before presuming normal operation after conversion is complete.

**CAUTION:** ***Ensure there is ventilation under the burner to provide fresh air for air shutter/orifice.***

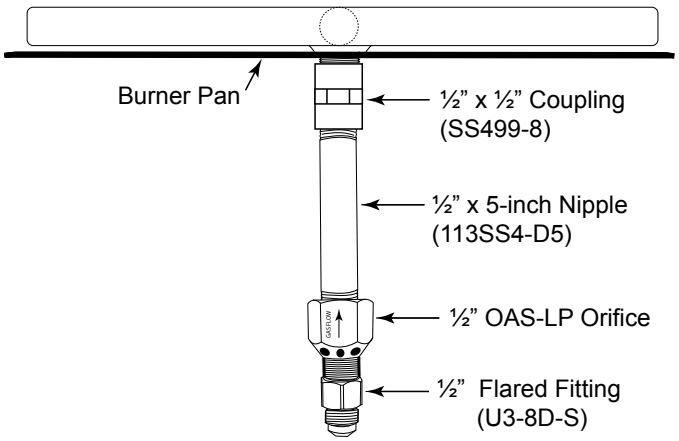



**Fig. 11** LP conversion illustration.

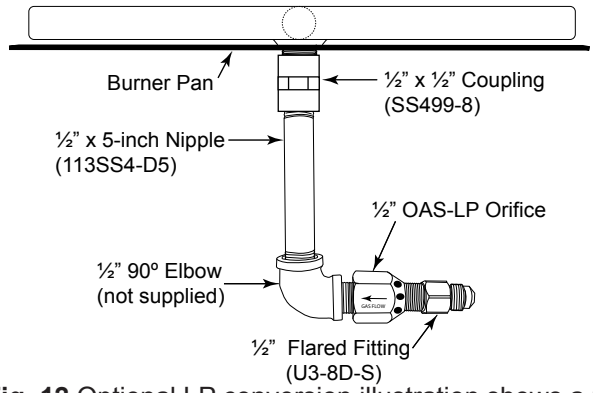



**Fig. 12** Optional LP conversion illustration shows a 90º elbow (not supplied).

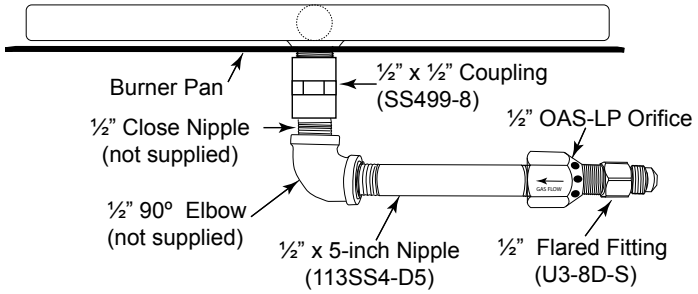



**Fig. 13** Optional LP conversion illustration shows a 90º elbow and close nipple (not supplied).

## ACCESSORIES

The following accessories are available from your local Firegear Outdoors dealer/distributor.
Each accessory comes with a separate installation manual. Read each instruction thoroughly before installing.

| | | |
|---|---|---|
| Lava Stones 1” to 2” size.<br>**Model**: FG-LS50 (50lb. bag) | Lava Rock 1” to 2”diameter<br>**Model**: FG-LAVA-10 (10lb.bag),<br>FG-LAVA40 (40lb bag.) | Vent Kits provide 18 square inches of ventilation per side of enclosure<br>**Model**: VENT-KIT-6X12SS |

## FIRE PIT MAINTENANCE

1. The fire pit should be inspected and cleaned before initial use at least annually by a qualified field service person.
2. Any component that is found faulty must be replaced with an approved component.
3. Any tampering or modifying with the fire pit is dangerous and voids all warranties.
4. During winter months in cold climates and various seasons operation the fire pit may be affected by weather conditions. It is recommended to use a ventilated cover over top of your fire pit to protect it from humid/rainy weather conditions when not in use. Heavy rains/downpours could affect the fire pit operation if not covered; if this occurs ensure you allow the fire pit time to dry out before attempting to operate. **NOTE**: If a combustible type cover is used over the fire pit when not in use be sure to remove it before operation to prevent a severe safety hazard.
5. Over time stainless steel parts can discolor when heated, usually a golden or brown hue. This discoloration is normal and does not affect the performance of the appliance.

## TROUBLE SHOOTING

| Symptom | Remedy |
|---|---|
| Fire pit won’t light | 1. Bleed gas line.<br>2. Ensure all gas supply lines are turned ON.<br>3. Ensure there is not too much media overtop of burner; it can inhibit gas from flowing.<br>4. Check gas pressure. |
| Low flame | 1. Ensure the base media is at least 1-inch in diameter and top media is no more than 1-inch over top of burner.<br>2. Ensure all shut-off valves and key valve is fully open. See page 11; Figure 14<br>3. Check gas pressure.<br>4. Check for spider webs blocking the air shutter orifice. |
| Water in my fire pit | 1. Excess dust/sand material from media may be blocking the weep holes to relieve water. Remove all media and unplug weep holes. Clean or install new media free of dust and dirt.<br>2. Ensure fire pit enclosure has proper drainage for water and proper ventilation to dry out. |

**FOR TECHNICAL SERVICE, CALL:**

Firegear Outdoors, an Earthcore Industries Brand
1600 Riverfork Drive
Huntington, IN 46750
260-388-5653
techsupport@firegearoutdoors.com

*Manual changes often occur, ensure to check the Firegear website for any recent updates and warranty information.*

FIREGEAR

# LIMITED WARRANTY

Firegear Outdoors hereby warrants to the end user that products will be free from material and workmanship defects that prevent safe and correct operation of the product. The warranty commences from date of sale to the end user for the following period:

**ALL WARRANTIES WITHIN THIS DOCUMENT ONLY APPLY TO PRODUCTS MANUFACTURED AFTER | 01 / 01 / 2026**

| BURNER SYSTEMS I BURNERS I COMPONENTS I ACCESSORIES<br>TYPE OF PRODUCT | CONSUMER<br>APPLICATIONS | COMMERCIAL<br>APPLICATIONS |
|---|---|---|
| Construction and Manufacturer Defects | Lifetime Warranty | 2 Year Warranty |
| Stainless Steel Burners and Pans | Lifetime Warranty | 2 Year Warranty |
| Pro Series Burners | Lifetime Warranty | 2 Year Warranty |
| Gas Valve, Spark Igniter, and Pilot Assemblies | 5 Year Warranty | 2 Year Warranty |
| AWS Electronic Ignition Systems (12 VAC, 24 VAC, 30 VAC) | 3 Year Warranty | 1 Year Warranty |
| TPSI Electronic Components | 5 Year Warranty | 2 Year Warranty |
| MT Components (Key Valve) | 5 Year Warranty | 2 Year Warranty |
| Refractory Gas Log Sets | 5 Year Warranty | 2 Year Warranty |
| Skytech Manufactured Optional Controls | 2 Year Warranty | 1 Year Warranty |

| OUTDOOR FIREPLACE I KALEA BAY<br>TYPE OF PRODUCT | CONSUMER<br>APPLICATIONS | COMMERCIAL<br>APPLICATIONS |
|---|---|---|
| Construction and Manufacturer Defects | Lifetime Warranty | Lifetime Warranty |
| Stainless Steel Components | Lifetime Warranty | Lifetime Warranty |
| Gas Valve, pilot Assembly, Power Supply, and Controls | 5 Year Warranty | 2 Year Warranty |
| Skytech Manufactured Optional Controls | 5 Year Warranty | 2 Year Warranty |

| SANCTUARY SERES - GFRC FIRE FEATURES<br>TYPE OF PRODUCT | CONSUMER<br>APPLICATIONS | COMMERCIAL<br>APPLICATIONS |
|---|---|---|
| GFRC Structure | * 3 Year Warranty | * 3 Year Warranty |
| * The warranty covers manufacturing defects or structural failure. Small stress cracks and surface crazing are a natural occurrence in GFRC products and are not covered within this warranty. Discoloration over time is a natural process and is not covered by this warranty | | |
| Burner System | ** Refer to Burner System | ** Refer to Burner System |
| ** Please refer to your burner system warranty for more information about your warranty. | | |

| ACCESSORIES<br>TYPE OF PRODUCT | CONSUMER<br>APPLICATIONS | COMMERCIAL<br>APPLICATIONS |
|---|---|---|
| Construction and Manufacturer Defects | Lifetime Warranty | Lifetime Warranty |
| Stainless Steel Components (Lids, Stainless Steel Covers) | Lifetime Warranty | Lifetime Warranty |
| ESTOP1-0H, Windshields, Hoses & Regulators | 1 Year Warranty | 1 Year Warranty |

**For additional details, please refer to the products installation manual**

The end-user must provide a bill of sale, canceled check, or payment record to verify the purchase date and to establish the warranty period. This Limited Warranty shall be valid and limited to the original purchaser only.

**WARNING:** Any modification to the product will void the warranty.

This Limited Warranty shall be limited to the repair and/or replacement of parts that have been proven to be defective under normal use and service. All warranty claims must be made by the Distributor/Dealer account on behalf of the end-user. You may contact Technical Support at 800-966-8126.

Our Technical Service Department must confirm all approved defects. If a defect is confirmed and we approve the claim, we will replace such parts without charge. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

The manufacturer may request defective products returned with an RMA (Return Merchandise Authorization) issued by Firegear Outdoors for specific products, which is considered to be the nature of the defect and or warranty claim. Product to be returned should; be packed so as not to incur damages during transportation. Firegear Outdoors is not responsible for damages on returned items. RMA is valid for thirty (30) days from the date issued. The RMA must be clearly marked on the outside of the package.

Please check with your local building code department or governing agency for proper approvals before purchasing. Firegear Outdoors is not responsible for any violation of local codes.

Travel, diagnostic cost, service labor to repair the defect on warranty parts to and from the factory will be the responsibility of the owner. We will not be responsible for labor charges and/or damage incurred in installation, repair, and replacement. Firegear Outdoors is not responsible for Issues related to gas or electrical installation.

The Limited Warranty is voided if not assembled, installed, and operated as intended. This Limited Warranty does not cover any defects due to accident, abuse, misuse, alteration, misapplication, vandalism, improper installation or improper maintenance or service, removal from the original location, or re-installation into another location, or failure to perform normal and routine maintenance.

Damage due to severe weather conditions such as hail, hurricanes, earthquakes, tornadoes, discoloration due to overheating, exposure to chemicals (including chlorine and salt), either directly or in the atmosphere, or very high humidity, is not covered by this Limited Warranty. Coastal, humid and/or salt environments are subject to manufacturer review. All out-of-box claims must be made within 30 days of purchase and must be made prior to installation. Any product installed damaged will be considered damaged during installation and not covered under warranty.

There are no other express warranties except as set forth herein. For consumer applications, any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this Limited Warranty. Some states do not allow limitation on how long an implied warranty lasts, so this limitation may not apply to you.

For Commercial Applications, the liability of Firegear Outdoors is limited to the express terms of this warranty. We expressly disclaim any and all implied warranties, including any warranties of fitness for a particular purpose or merchantability.

We are not liable for any special, indirect or consequential damages. Our maximum liability is limited to the purchase price of the purchased units. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

We do not authorize any person or company to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return, or replacement of its equipment, and or such representation are binding.

FIREGEAR
Firegear Outdoors
1600 Riverfork Dr. East
Huntington, IN 46750

www.firegearoutdoors.com

Having problems getting the fire pit to operate? Don't leave the job site! We want to help! Call 260-355-5577 for Technical Support between the hours of 8:30AM to 4:30PM

**BEFORE YOU CALL WE WILL NEED THIS INFORMATION**

1. Model Number: _____
2. Serial Number: _____
3. How long is the gas line run? Nat Gas ____ LP Gas ____
4. What size is gas line? _____
5. Inlet Gas Pressure: _____WC
   Manifold Gas Pressure: _____ WC
6. What type of media are you using? _____
7. Review the troubleshooting section in the installation manual.
8. What are the symptoms? Please be prepared to explain.
9. Be prepared to send photos to us when on the phone.
10. Found missing or damaged parts? Let us know ASAP or send photos.