



# Manual Light System

## Installation and Operation Guide

**ATTENTION:** Please carefully read these instructions prior to installing your Manual Light System. Failure to adhere to these instructions may result in a possible fire hazard, explosion, property damage, serious injury or loss of life. Do not discard this installation guide, it must remain with fire feature.

**ATTENTION:** Installation and service must be performed by a qualified gas installer, service agency or gas supplier. Your installer must follow these instructions carefully. Fire By Design and their affiliates are not responsible for the actions of the installer or misuse of products.

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Description	BTU Rating	Gas Inlet Size
12" Round Burner, 304 Stainless Steel	Up to 85,000	1/2" Female NPT
18" Round Burner, 304 Stainless Steel	Up to 162,000	1/2" Female NPT
24" Round Burner, 304 Stainless Steel	Up to 170,000	1/2" Female NPT
30" Round Burner, 304 Stainless Steel	Up to 221,000	3/4" Female NPT

### Gas Pressure (Nominal)

Natural Gas	7" wc
Propane	11" wc



### **WARNING!**

If you smell gas, immediately take the following actions:

1. Do not attempt to ignite your appliance.
  2. Shut off the gas to the appliance.
  3. Extinguish any open flame near the unit.
  4. If odor lingers, call your gas supplier or local fire department.
- Do not store or use any gasoline or other flammable vapors and/or liquids in the vicinity of this or any other appliance.
  - Never attempt to burn wood or any other flammable materials in this fire feature.

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**304 STAINLESS STEEL BURNERS**

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**INCLUDES NG ORIFICE OR LP AIR MIXER**

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**OUR MANUAL LIGHT KITS INCLUDE:**

- 304 Stainless Steel Burner • Key Valve Assembly
- Key Valve Mounting Bracket (2) Whistle Free Flexible Gas Lines•
- Stainless Flat Burner Pan



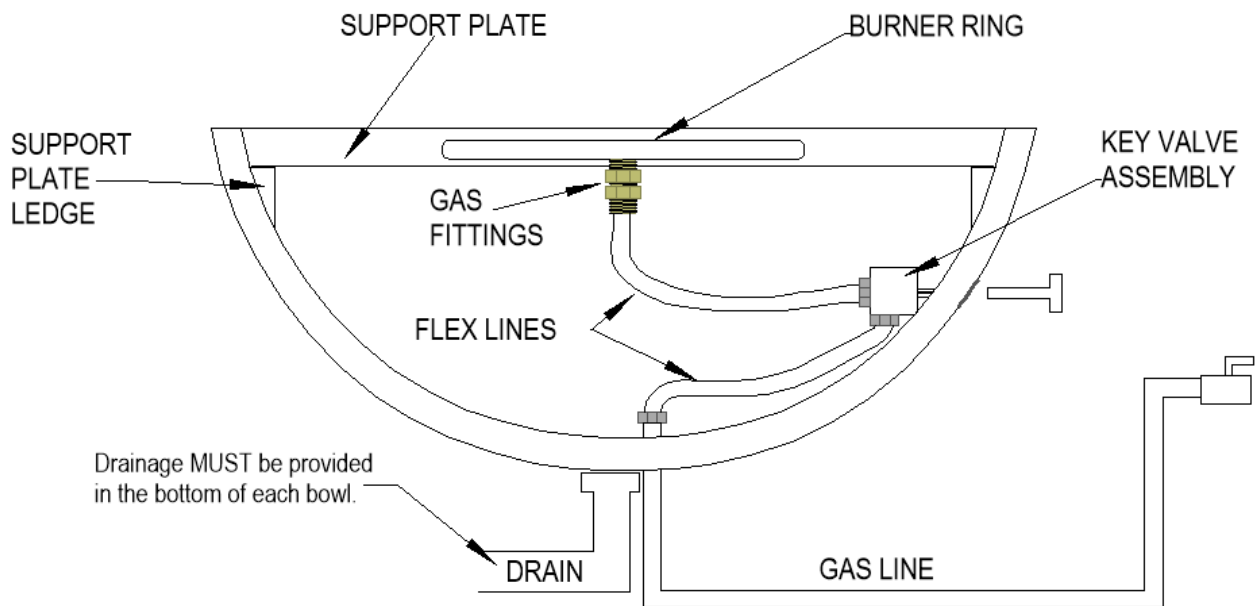
**WHISTLE FREE FLEX LINES**

**WARNING!** This unit is for outdoor use only.

- Do not install near any combustibles such as wood structures, fuels, clothing, fabrics, or dry vegetation.
- **Installation shall be performed by a licensed contractor.** All aspects of installation must conform to local or national codes, or in the absence of codes, with Natural Fuel Gas Code ANZI Z223.1.
- An approved gas valve or keyed valve shall be installed in the decorative bowl or upstream of the unit and located in an accessible area that is within 5ft from the Manual System.  
Note: All Manual Systems includes key valve, unless otherwise specified.
- The approved gas valve must be located where they can be easily accessible so that the gas can be shut off quickly in case of an emergency.

## Installation

1. Install the Fire Feature as shown in the diagram below.



2. The gas line must be installed underground between each vessel, as shown in in the image above.
3. Using pipe sealer, attach supplied flex line to gas line. Then attach the other end of the flex line to key valve assembly. Do not kink or make a tight radius bend on the gas hose.
4. From Key Valve Assembly connect Flex Line to the Burner Assembly.

5. Check all gas connections tight, position the burner assembly so that it sits level in the bowl. Rotate as required so that the gas hose rests in a compact position.



**Key Valve Assembly**  
(Inside View)



**Key Valve Assembly**  
(Outside View)

**NOTE:** Leak Test – it is highly recommended to perform a gas leak test at this point in the install. Turn on the gas supply and then, using a soapy water solution spray on the gas line connections to ensure no leaks exist.

**CAUTION!** Use only approved decorative media to cover the burner assembly. Use caution when in the immediate area, as pieces may pop or explode when exposed to heat or moisture.

- Clean the burner assembly and bowl with a wet cloth or cleaning solution to remove carbon build-up, frequency of the cleaning will depend on usage.
- Periodically inspect the underside of the burner assembly for any signs of excessive temperatures. Check that all gas connections are tight.
- The burner should not be operated in high wind conditions.

**Note:** If any problems occur, consult a licensed heating professional or call FIRE BY DESIGN



**WARNING!**

This unit is for outdoor use only.

**For Your Safety**

- If you smell gas, shut off the gas valve immediately.
- Extinguish any open flame.
- If odor continues, immediately call your gas supplier.
- Do not store or use gasoline or other flammable vapors and/or liquids in the vicinity of this appliance.
- Do not leave flame on while unsupervised.
- Do not operate in windy or rainy conditions.
- Unit should be operated only by a responsible adult.
- When in use, an open flame is present; therefore, use with extreme care and at your own risk.
- Before any inspection of the unit, always turn off gas supply.
- If you experience problems with this unit, call Fire by Design or a licensed heating professional.
- All work on this unit must be performed by a licensed heating professional.

**CAUTION!** Before you turn on the Manual System, make sure that features are clear of people, animals, or any objects that are combustible.

**Operating Instructions**

- With the unit in off position check for gas smell or leaks.
- Using the key, open valve approximately 50%
- Stand back and quickly light burner with extended BBQ lighter.
- Adjust flame as desired for safe use.
- To extinguish flame use key to turn off valve.