

SPARK LINEAR BURNER SYSTEM INDOOR

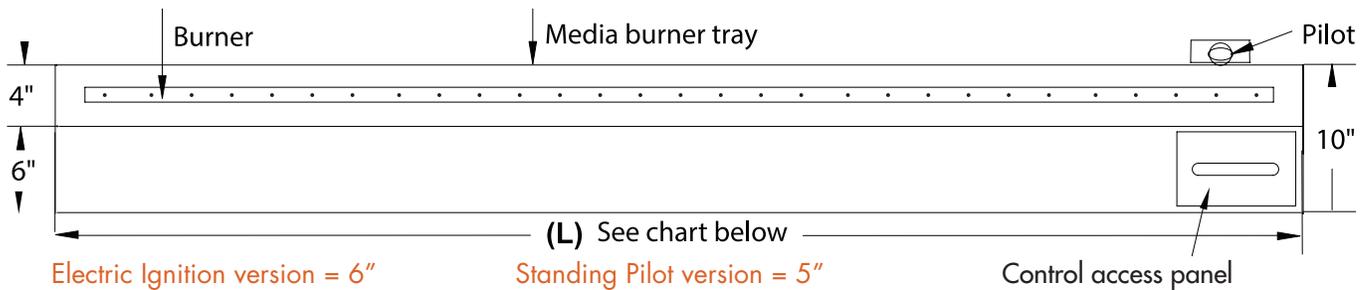


Endless Choices. Masterful Results.

Spark's latest, leading-edge linear fireplace is so customizable that gas fire becomes the ultimate designer's tool. Create the perfect firescape for your design style by experimenting with different sizes, flame lengths and views.

SPARK Modern Fires wants help you achieve your fireplace vision. We will review your planned installation of the LBS. Please provide plan view and section drawings electronically, along with a rendering of the finishing details, and we will help you plan it properly. **Not for use in bedrooms or bathrooms.**





Electric Ignition version = 6"

Standing Pilot version = 5"

Control access panel

Model Number	Overall Length (L)	Unit Height	Fireplace Width Min.	Input Rate BTU/hr		Number Orifice N.G. (L.P.)	Orifice Size	
				N.G.	L.P.		N.G.	L.P.
LBS24	24"	6" (5")*	28"	41,000	33,500	2 (1)	44	49
LBS36	36"	6" (5")*	40"	61,000	54,000	3 (1)	44	43
LBS48	48"	6" (5")*	52"	82,000	72,000	4 (1)	43	38
LBS60	60"	6" (5")*	64"	102,000	90,000	5 (2)	43	46
LBS72	72"	6" (5")*	76"	116,000	110,000	6 (2)	43	43
LBS84	84"	6" (5")*	88"	129,000	128,000	7 (2)	43	41
LBS96	96"	6" (5")*	100"	142,000	146,500	8 (2)	43	38

Minimum fireplace depth required = 14"

Minimum fireplace height required = 18"

*standing pilot version

CRITICAL NOTES FOR PROPER AND SAFE INSTALLATION OF THE LINEAR BURNER SYSTEMS

Minimum ventilation air requirements and details of how to properly provide this air to the underside of these burners: **If using room air:** a minimum requirement of 12 square inches of air per linear foot of burner and a 1/2" gap around the perimeter of the burner including the pilot. **If using outside air** (ducted): the following is acceptable: 2' of burner = one 4" round; 3' to 4' of burner = two 4" round; 5' to 6' of burner = three 4" round; 7' to 8' of burner = four 4" round. Spaced evenly under the front of the burner assembly. **CAUTION:** ventilation air supply must originate at or below the base of the linear burner.

NOTE: Not to be used in bedrooms or bathrooms.

This is a high throughput gas appliance and critical attention is needed to size the gas pipes properly.

The Linear Burner System is available in lengths from 2' through 8' in 1' increments. The linear burner itself is a media burner which means that the burner tube is covered with media (broken pieces of fire glass). A top surface media can be chosen from a list of approved options.





MODEL NO.

LBS24 LBS36 LBS48 LBS60 LBS72 LBS84 LBS96

Exterior Dimension

Standing pilot 2' - 8' W x 5" H x 10" D
 Electronic ignition 2' - 8' W x 6" H x 10" D

Gas type*

Natural or propane

On/off

Remote control

Venting options

Masonry or class A flue vertical through the roof

Sustained operating gas pressure parameters:

5.5" - 10.5" w.c. for Natural gas
 11.0" - 13.0" w.c. for LP/propane

Electrical

110 V. Electronic Ignition N/A for standing pilot

Accessory equipment

Recommended mechanized flue fan and mechanical damper Enerdex.com

Burner appearance

Linear burner in lengths from 2' to 8' in 1' increments. Burner tube is submerged into bed of broken tempered glass.

Open air fire

Any glass doors must be open while in operation.

Media options

Tempered glass around the burner and approved colored glass or Lava stone as a topcoat. Comes with Ebonyglass; Iceglass or Lavastone are also available.

Fireplace configuration

Retrofit into an approved wood-burning fireplace. Appliance may be installed as a 1, 2, 3 or 4 sided fireplace with appropriate fireplace chimney.

Cooling air supply to base of unit

12 sq. inches of fresh air per linear foot of burner with 1/2" air gap around entire assembly

Certifications

Omni-Test Laboratories ANSI Z21.60B-2004, CSA 2.26B-2004

Options

Iceland or Lavastone

*Must be specified at time of ordering.

WHY PICK A SPARK LINEAR BURNER SYSTEM

- Convert wood burning fireplace to gas with a clean modern aesthetic
- Create custom fireplace installations... single view, see through, three sided or full view firescapes
- Open front/live fire... not behind glass doors

BURNER SYSTEM FEATURES

The system is available in lengths from 24" through 96" in 1' increments. The linear burner itself is a media burner which means that the burner tube is covered with media (broken pieces of tempered glass). A top surface media can be chosen from a list of approved options.

APPLICATIONS...THE SPARK OF IMAGINATION

The linear burner system was developed to serve two common design challenges.

1. Retrofit a wood burning fireplace and convert it to gas without resorting to the use of a gas log set. Typically burners in the 24" to 48" range would be used in existing wood burning fireplaces.
2. Provide a means of creating "custom linear firescapes" with a nationally certified and approved burner system. Typically burners from 48" to 96" would be used by architects and designers to create single view, see through, three sided and four sided viewable fireplaces.

CERTIFICATIONS

The linear burner system was designed and certified under National Standard ANSI Z21.60, CSA 2.26. This system is approved for use with Natural Gas or Liquid Propane. Approved for use in all 50 states as well as Canada. Before creating a custom fireplace for this system please consult your local/state code requirements.

FIREPLACE REQUIREMENTS

The ANSI standard states that this burner system shall be installed in a solid fuel (wood) burning approved fireplace. The firebox and flue must meet current codes for wood burning fireplaces. This can be achieved with traditional masonry or a steel lined firebox within a masonry enclosure with a stainless steel class A flue. **Ventilation air supply must be a part of the firebox construction.** GLASS DOORS can be installed on this fireplace. However, they MUST be fully OPEN when the burner is operating. For multi view fireplaces with glass doors it is required that a minimum of one side is open at all times during operation. The reason for this is to keep the valves and other components from overheating.

GAS SERVICE

A licensed plumber or mechanical engineer should determine the size of the gas line needed. A licensed plumber, gas fitter or other licensed technician should always install new gas lines. Gas lines are required to be pressure tested and inspected by your local jurisdiction. Gas service can be provided and connected from either the side or rear of the Linear burner system.



BURNER INSTALLATION

The unit can set up directly in the firebox with no other adornments. This should be templated after the unit is installed and allow for unobstructed pilot light operation, unobstructed burner tray function and a removable access panel for valve controls.

Continuous ventilation airflow must be allowed to flow to the bottom of the burner. Allow 12 square inches of air per linear foot of burner and 1/2" gap around the perimeter of burner Including Pilot.

Caution: ventilation air supply must originate at or below height of the base of the linear burner.

FLUE FANS AND MECHANIZED DAMPERS

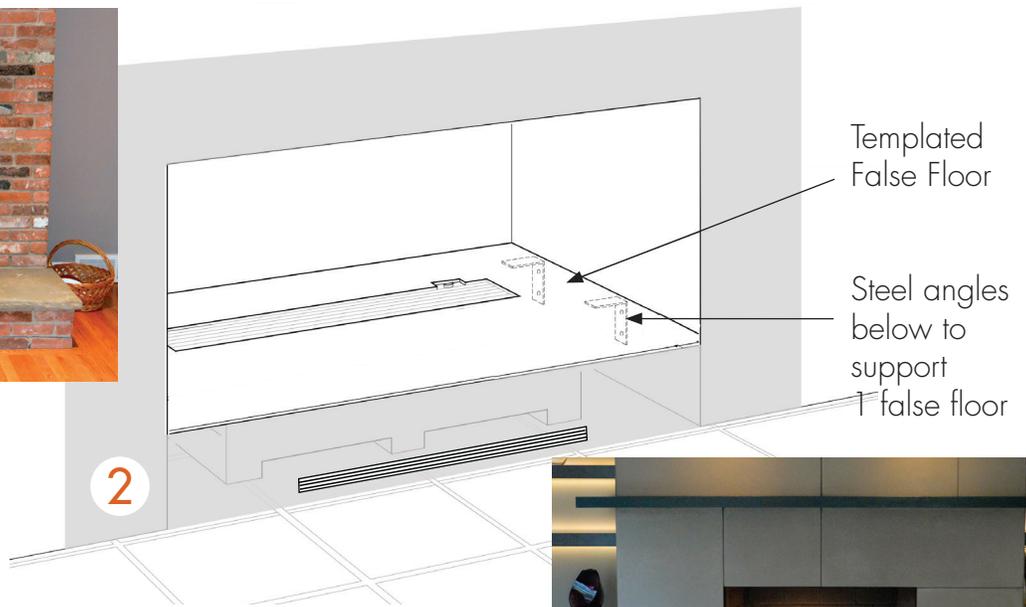
It is recommended that mechanized flue fans and dampers be used to ensure proper flue operation. When a burner of 60" or more is utilized it is strongly recommended that mechanized flue fans be integrated into the fireplace design. A vendor such as Enervex (enervex.com) can provide these essential components.

ELECTRICITY

Linear burner system works off of a millivolt system. Electricity is NOT required for operation of the standard Linear Burner. Electricity will be necessary for the Electronic Ignition Linear Burner. Electricity would be required to operate mechanized flue fans or remote dampers. Priority wiring can be utilized to ensure that the fans are operating and the dampers are open before burners ignite.

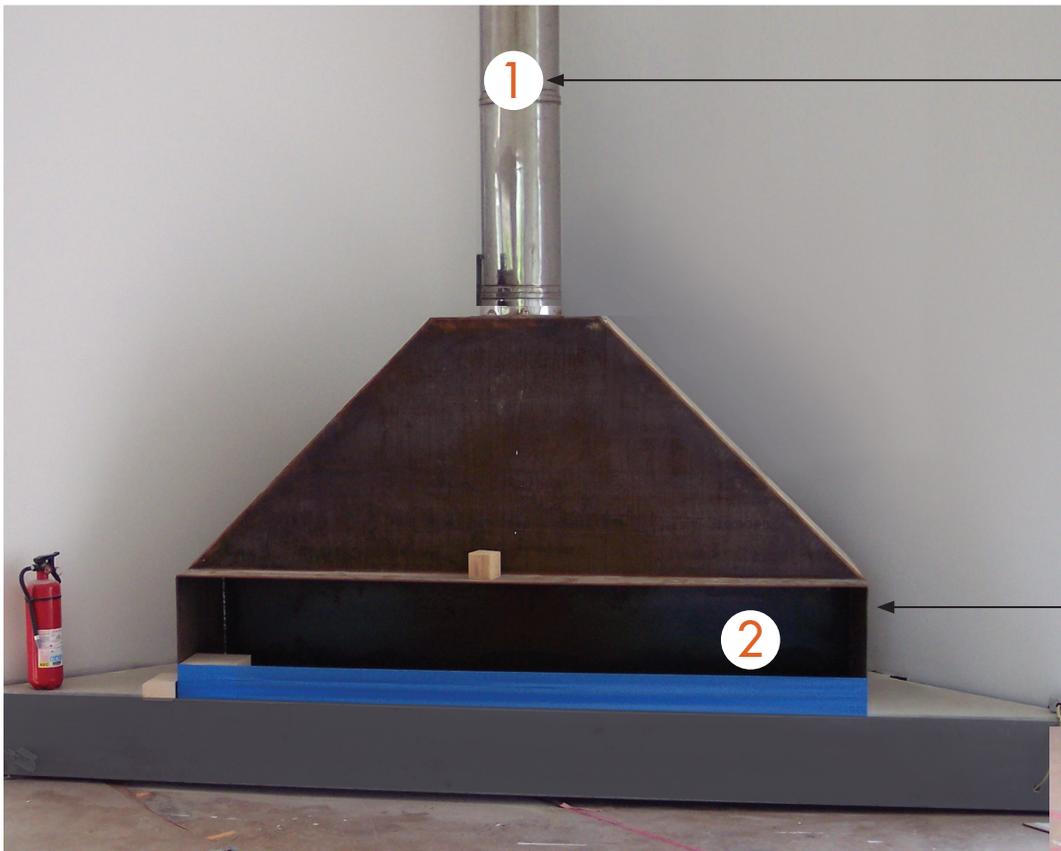
CONVERT OR RETROFIT YOUR FIREPLACE

The process to convert or retrofit the linear burner system into an existing wood burning fireplace.



CUSTOM FIREPLACE APPLICATION

The process for installing the 8' Linear Burner System



1

Class A Stainless Steel Flue

2

Custom 1/4" steel Firebox liner (not included with this unit) before firebrick encasement

Encase with firebricks



3



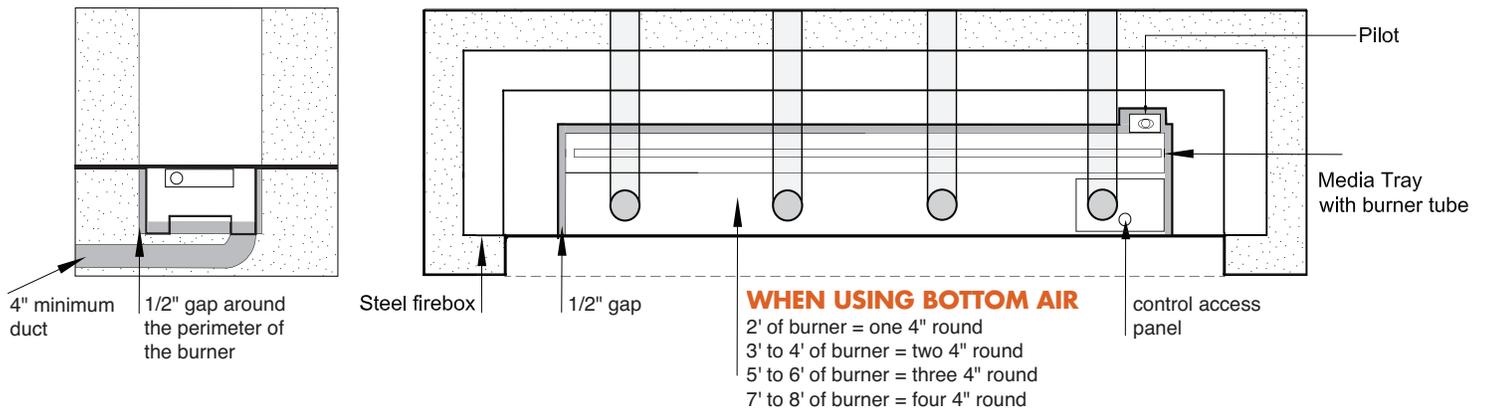
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Finished Linear Burner System

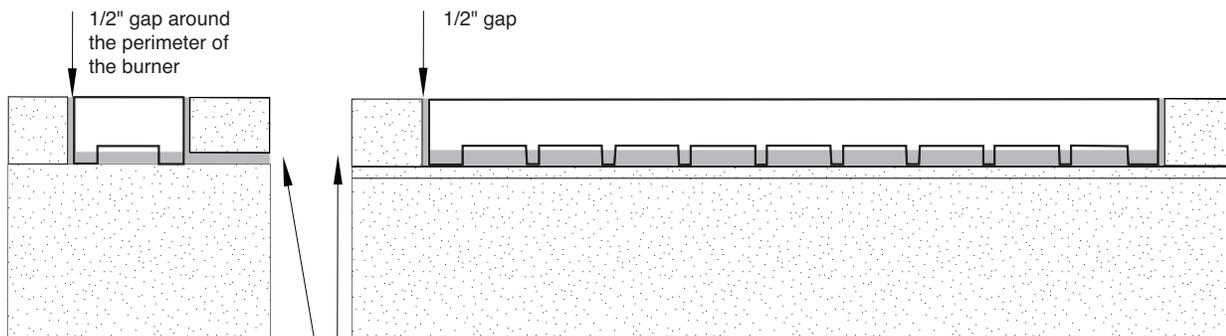
VENTILATION AIR SUPPLY GUIDE

- Allow 12 square inches of air per linear foot of burner
- 1/2" gap around the perimeter of burner Including Pilot.
- Ventilation air supply must originate at or below height of the base of the linear burner.

BOTTOM AIR VENTILATION



SIDE AIR VENTILATION



WHEN USING SIDE AIR

Allow 12 square inches of air per linear foot of burner
 1/2" gap around the perimeter of burner Including Pilot.
 Caution: Ventilation air supply must originate at or below height of the base of the linear burner.



SPARK Modern Fires

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