

## Specifications of OVENPAK® LE burners

## OVENPAK® LE 13

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	1,350,000
Minimum capacity ([3])		27,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	6
Combustion air pressure differential		6
Fan motorpower	hp	0.5
Pilot capacity [5]	Btu/h	27,000

[1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )

[2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.

[3] Minimum capacity may be affected by fuel and application parameters.

[4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.

[5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .

## OVENPAK® LE 15

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	1,600,000
Minimum capacity [3]		32,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	8.5
Combustion air pressure differential		8.5
Fan motorpower	hp	1
Pilot capacity [5]	Btu/h	32,000

[1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )

[2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.

[3] Minimum capacity may be affected by fuel and application parameters.

[4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.

[5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .

OVENPAK® LE 25

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	2,500,000
Minimum capacity [3]		50,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	8.4
Combustion air pressure differential		8.4
Fan motorpower	hp	2
Pilot capacity [5]	Btu/h	50,000

- [1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )
- [2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.
- [3] Minimum capacity may be affected by fuel and application parameters.
- [4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.
- [5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .

OVENPAK® LE 30

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	3,150,000
Minimum capacity [3]		63,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	8.8
Combustion air pressure differential		8.8
Fan motorpower	hp	3
Pilot capacity [5]	Btu/h	63,000

- [1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )
- [2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.
- [3] Minimum capacity may be affected by fuel and application parameters.
- [4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.
- [5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .



## OVENPAK® LE 35

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	3,500,000
Minimum capacity [3]		70,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	10.5
Combustion air pressure differential		10.5
Fan motorpower	hp	3
Pilot capacity [5]	Btu/h	70,000

[1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )

[2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.

[3] Minimum capacity may be affected by fuel and application parameters.

[4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.

[5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .

## OVENPAK® LE 40

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	4,000,000
Minimum capacity [3]		80,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	7
Combustion air pressure differential		7
Fan motorpower	hp	3
Pilot capacity [5]	Btu/h	80,000

[1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )

[2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.

[3] Minimum capacity may be affected by fuel and application parameters.

[4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.

[5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .

OVENPAK® LE 45

Typical burner data		
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]		
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]		
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.		
Maximum capacity [2]	Btu/h	4,480,000
Minimum capacity [3]		90,000
Maximum turndown		50:1
High fire gas pressure differential [4]	" wc	9.2
Combustion air pressure differential		9.2
Fan motorpower	hp	5
Pilot capacity [5]	Btu/h	90,000

- [1] sg (specific gravity) = relative density to air (density air = 0.0763 lb/ft<sup>3</sup>(st) )
- [2] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.
- [3] Minimum capacity may be affected by fuel and application parameters.
- [4] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.
- [5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .

OVENPAK® LE EB40 and EB65

Typical burner data			
Fuel: natural gas at 60°F with 1000 Btu/ft <sup>3</sup> HHV - sg = 0.6 [1]			
Combustion air: 60°F - 21% O <sub>2</sub> - 50% rel. humidity - sg = 1.0 [1]			
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel, and gas quality.			
		EB40	EB65
Chamber pressure	" wc	-0.5	-0.5
Maximum capacity	Btu/h	4,000,000	6,500,000
Minimum capacity [2]		40,000	40,000
Maximum turndown		100:1	100:1
High fire gas pressure differential [3]	" wc	22.5	19.5
Combustion air pressure differential [6]		22.5	19.5
Combustion air volume [4]	cfm	950	1,545
Pilot capacity [5]	Btu/h	65,000	65,000
Inlet air pressure differential [7]	" wc	27.0	21.0

- [1] sg (specific gravity) = relative density to air (density air =0.0763 lb/ft<sup>3</sup>(st) )
- [2] Minimum capacity may be affected by fuel and application parameters.
- [3] Gas pressure displayed for natural gas or propane. Propane pressures shown require use of optional propane nozzle.
- [4] Combustion air defined as standard temperature and pressure.
- [5] Pilot gas pressure at adjustable gas orifice should be 4-8 " wc .
- [6] Combustion air differential pressure to be measured between burner test connection and combustion chamber
- [7] Inlet combustion air differential pressure to be measured between burner inlet and combustion chamber

Materials of construction

Burner part	Material
Housing	1010 steel (1.1121)
Back plate	Cast iron
Cone	310 Stainless steel (1.4841)
Nozzle	Cast iron
Impeller	Aluminum
Fan case	Aluminum / steel



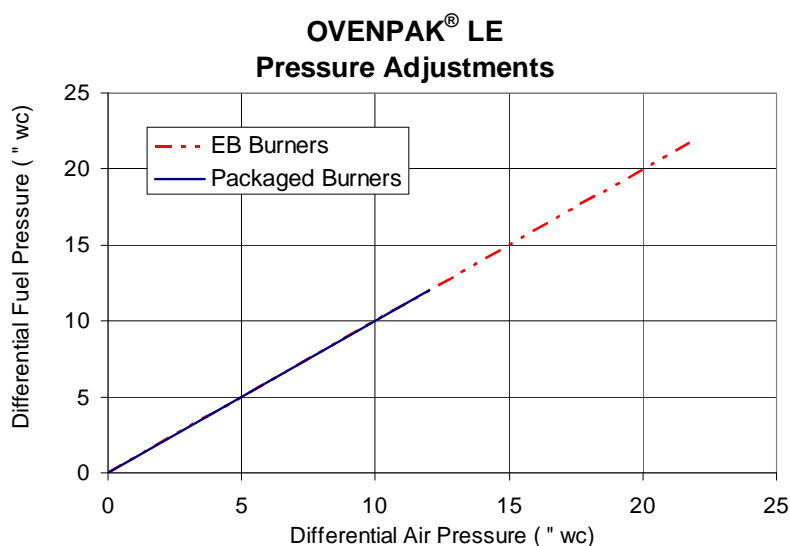
## Selection criteria

The OVENPAK® LE Burner is a nozzle mixing burner for use on a wide variety of industrial applications. The burner utilizes advanced, rapid mixing to produce low levels of NO<sub>x</sub> and CO while maintaining high turndown and operational flexibility.

The OVENPAK® LE Burner is available in several versions. Packaged burners contain integral combustion air blower and linked control valves to maintain the gas-air ratio over the full operating range. EB burners are equipped with an air inlet adapter and are designed for remote blower application. EB versions include an internal air valve designed to be connected to an external fuel control valve. The EB version may also be ordered with no valves.

The OVENPAK® LE Burner includes a combustion air blower with non-sparking paddle wheel-type impeller, pilot, spark ignitor, stainless steel discharge sleeve, mixing cone and provision for a flame safeguard sensor.

OVENPAK® LE burners feature a unique balanced pressure design with equal fuel pressures and air pressures. This feature provides easy set-up and verification. In addition, balanced supply pressures provide resistance to fluctuations or upsets in the firing chamber pressure. During upsets, the burner's ratio will be maintained for stability and emissions control.



## Blower orientation

Blower should be positioned only with the motor parallel to the burner-oven flange. Altering blower position is not recommended as turndown and emissions will be affected. See illustrations under heading "Dimensions and weights" for proper orientation.

## Pipe train

For proper air to fuel ratio, do not exceed 4\"wc pressure drop between the burner inlet and the regulator. Higher pressure drops will impact turndown and emissions.

## OVENPAK® LE burner versions

### Application details

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OVENPAK® LE burners can be used in all direct fired air heating applications. It combines flexibility and stability with high turndown and low NOx/CO emissions. It can be used in all air heating applications that require low NOx firing and allow excess combustion air. Consult installation instructions under "Burner mounting" for mounting and insulating requirements.

OVENPAK® LE Burners can be fired into tubes up to 8500 Btu/h/in<sup>2</sup> of tube cross sectional area. The OVENPAK® LE may also be used for indirect applications up to 1000° F.

### Maximum capacities

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All OVENPAK® LE burners can be fired at higher than maximum capacities if sufficient combustion air and fuel gas is provided to the burner. EB burners may be overfired up to 15% over cataloged capacities with an adequate combustion air blower. Burner emissions will be affected by overfiring. Fuel pressure will increase in kind to maintain balance pressure design on EB burners.

### Process back pressure

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Standard packaged OVENPAK® LE burners with integrated fan can accept static chamber pressures between -5"wc and +5"wc. The unique balanced pressure design provides resistance to unstable application pressures. During system upsets, the burner's output capacity will be impacted but the air-fuel ratio and stability will be maintained. The capacity of packaged burners will be affected by chamber pressure.

EB burners with external valves retain the balanced pressure design at the burner nozzles. Process pressures for EB burners should be limited to +5 psi to -5 psi. Care should be taken when selecting external air and fuel valves to closely match the pressure drops at full flow.

### Process temperature

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The construction of the burner allows operation in all applications with process temperatures from ambient up to 1000° F.

### Piloting & ignition

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All OVENPAK® LE burners are equipped with a self-piloted design. Pilots shall be used only for ignition of the main flame (interrupted). Use of a standing (continuous) pilot will reduce burner turndown and negatively impact emissions. Use minimally 5000 V/200 VA ignition transformers for sparking of the spark ignitor. Optional ignition equipment for hazardous locations is available as well as high energy ignitors for direct ignition.

Start the burner at low fire settings only. Direct spark ignition of standard OVENPAK® LE burners is possible. Ignitor should spark to the cone only. Arc should be easily visible through the observation window for verification of ignition and maintenance. Locate one pilot gas valve as close as possible to the pilot burner gas inlet to have fast ignition of the pilot burner.

## Typical ignition sequence

- Pre-purge of burner and installation, according to the applicable codes and the installation's requirements.
- Combustion air control valve shall be in the minimum position to allow minimum combustion air flow to the burner.
- Pre-ignition (typically 2s sparking in air).
- Open pilot gas and continue to spark the ignitor (typically 5s).
- Stop sparking, continue to power the pilot gas valves and start flame check. Trip burner if no flame from here on.
- Check pilot flame stability (typical 5s to prove stable pilot).
- Open main gas valves and allow enough time to have main gas in the burner (typical 5s + time required to have main gas in the burner).
- Close the pilot gas valves.
- Release to modulation (allow modulation of the burner).

Above sequence shall be completed to include all required safety checks during the start-up of the burner (process & burner safeties).

Locate one pilot gas valve as close as possible to the pilot burner gas inlet, to have fast ignition of the pilot burner.

## Ratio control

Burner should be modulated between low and high fire position settings only. Overtraveling can damage internal linkage. Low and high fire stops are intended as visual indicators only. They should not be used as the low or as the high fire hard stops. Packaged burners with internal linkage should have no more than 4" wc pressure drop in the fuel train from the regulator to burner inlet.

OVENPAK® LE burners may operate with excess air levels of 5-40%. Best NO<sub>x</sub> emissions will be produced with 35-40% excess air. CO emissions will be influenced by ratio and a variety of other factors. See "Expected emissions" for more information.

## Flame supervision

OVENPAK® LE flames shall be supervised by flame scanners or flame rods allowing verification of both pilot flame and main flame. (It is not possible to distinguish main and pilot flame.)

Scanners are mounted on the burner back plate and look through the fuel nozzle. Pay attention to possible pick-up of strange flames (if any in the furnace).

## Flame development

The OVENPAK® LE creates stout, thoroughly mixed flames with short lengths. Burner flames remain consistent across most burner sizes.

Dimensions in inches unless stated otherwise		
Burner flame size	Diameter (in)	Length [1] (in)
13	9	20
15		
25		
30	11	24
35		
40		
45		
EB40	9	20
EB65	11	24

[1] Flame length indicated is measured from the end of the discharge sleeve.

### Cross velocities

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Cross velocities up to 3000 ft/min can be allowed over the OVENPAK® LE flame. Contact MAXON for assistance for cross velocity over the flame in excess of 3000 ft/min, or for processes with high moisture content.

### Combustion air control & piping

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OVENPAK® LE EB burners require combustion air control valves with high turndown (to guarantee correct air flow at minimum capacity). Air control valves shall be properly sized. Typically, the air control valve diameter shall be smaller than the burner air inlet. Combustion air piping to the burner shall be done in such way that the air flow to the burner will not disturb the flame. One diameter straight pipe length is recommended at the blower air inlet. Location of air control valves directly on the burner inlet is not possible.

Packaged burners and fans will be shipped disassembled. Blower orientation other than depicted under “Dimensions and weights” is not recommended.

### Fuels

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Standard OVENPAK® LE burners are designed for low NOx firing of natural gas only. Optional versions are available to fire propane/LPG. When firing propane, butane or other alternate fuels, higher NOx will be produced. Contact MAXON for expected influence on emissions.

### Expected emissions

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Packaged burner emissions can be controlled by adjusting the regulator at high fire position, and by adjusting the tuning screw at lower firing position. The fine tuning screw is located below the metal access plate under the viewport at the backplate of each burner. This screw is only intended to allow fine tuning of the NOx and CO production at midfire. No more than 2 turns of the screw should be utilized in either direction. EB burners do not include an internal air and gas linkage or a tuning screw.

Typical NOx for OVENPAK® LE burners firing natural gas with 40% excess air is approximately 1/2 to 1/3 the NOx of conventional burners.

CO highly depends on the installation's lay-out and can be reduced if sufficient dwell time after the flame is allowed. CO can generally be controlled below most known standards and regulatory requirements. Consult MAXON for correct application information.

**Exact emissions performance may vary in your application. Contact MAXON for information on installation-specific estimates and guaranteed values. No guarantee of emissions is intended or implied without specific, written guarantee from MAXON.**

### Discharge sleeves

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Discharge sleeve should be selected based on the process conditions. Several materials and length configurations are available.

Discharge sleeves	Discharge sleeve material	Application conditions
Standard	309 / 310 SS (1.4828 / 1.4841)	<700° F direct fired
Optional	330 SS (1.4333)	700° F-1000° F direct fired
Optional	Short 310 SS (1.4841)2	<1000° F indirect fired

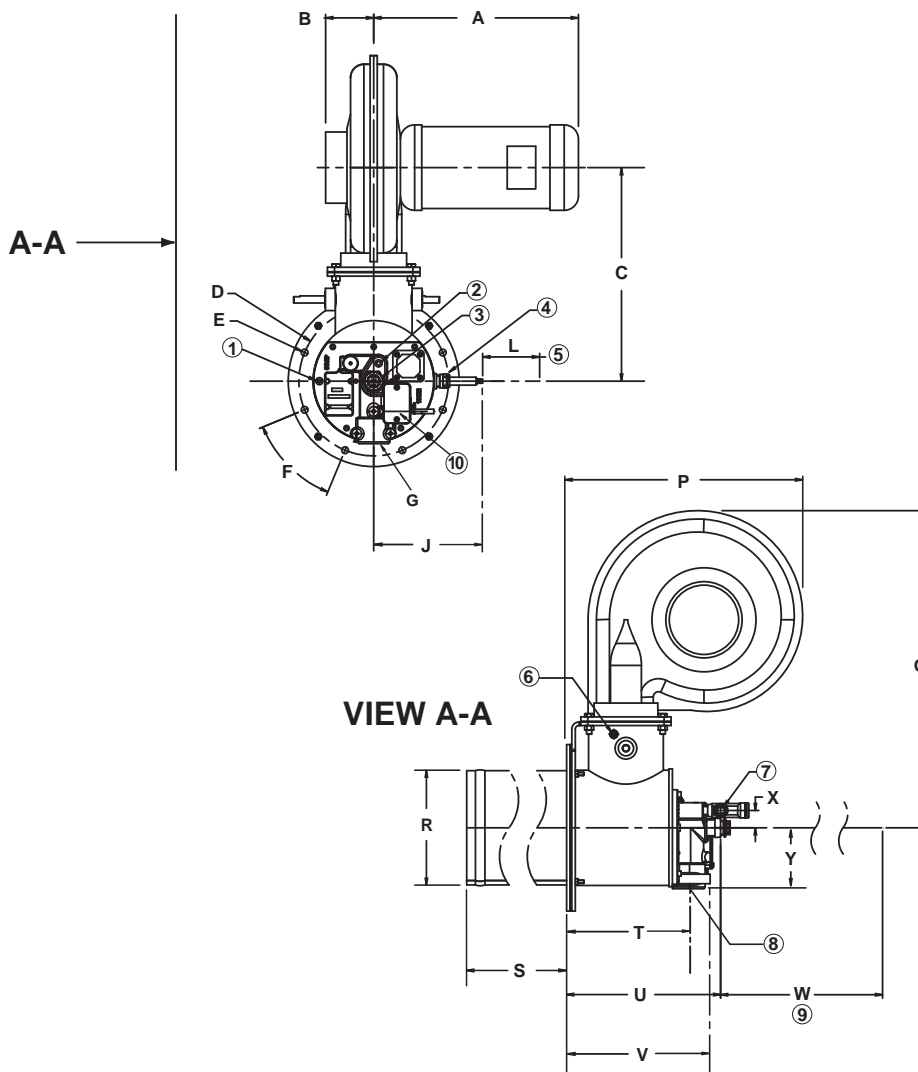




## Dimensions and weights

### Packaged 13 - 25

- 1) Air test port 1/4" NPT
- 2) Gas test port 1/4" NPT
- 3) Flame rod or flame scanner (optional)
- 4) Spark ignitor
- 5) Spark ignitor removal
- 6) Air inlet test port 1/4" NPT
- 7) Pilot gas inlet 3/8" NPT
- 8) Gas inlet
- 9) Removal of optional flame rod
- 10) Tuning screw

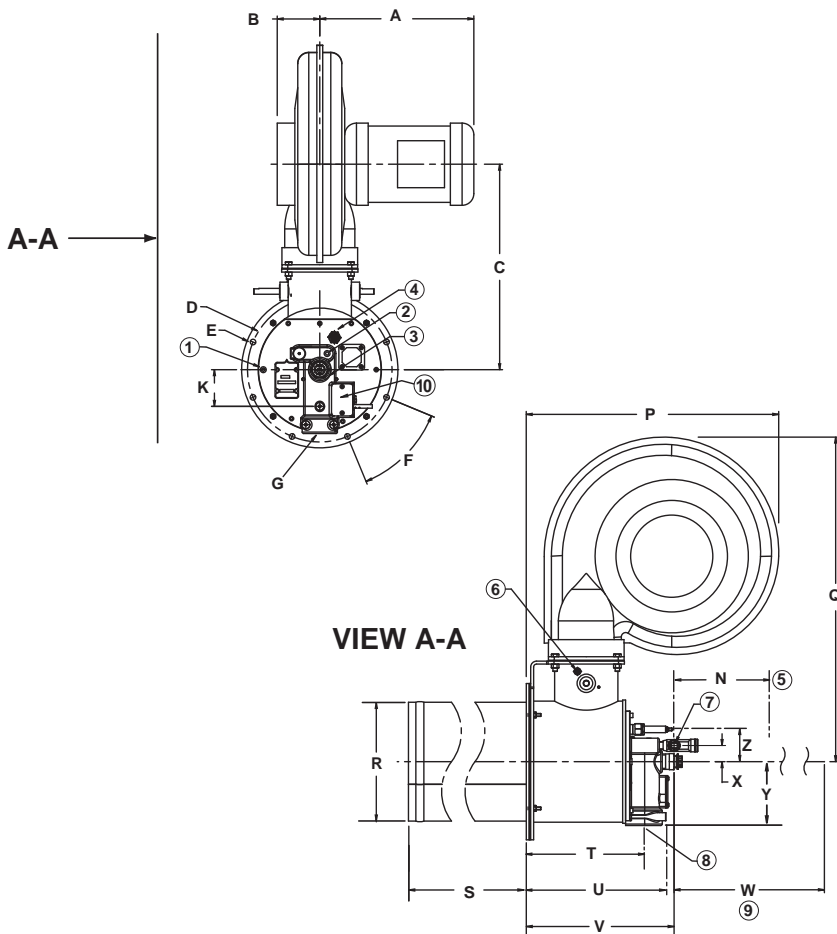


Dimensions in inches unless stated otherwise										
Model	A	B	C	D	E	F	G	J	L	P
13	14.38	3.38	15.00	10.5	.475	45°	1-1/4" NPT	7.65	4.0	17.01
15	11.50	3.38	16.56	10.5	.475	45°	1-1/4" NPT	7.65	4.0	20.67
25	12.50	3.63	16.56	10.5	.475	45°	1-1/4" NPT	7.65	4.0	20.67

Dimensions in inches unless stated otherwise											Weight lb
Model	Q	R	S Std.	S Short	T	U	V	W	X	Y	
13	22.87	8.30	12.0	4.63	8.94	11.10	10.34	18.5	1.250	4.39	101
15	26.70	8.30			8.94	11.10	10.34	18.5	1.250	4.39	
25	26.70	8.30			8.94	11.10	10.34	18.5	1.250	4.39	

Packaged 30 - 45

- 1) Air test port 1/4" NPT
- 2) Gas test port 1/4" NPT
- 3) Flame rod or flame scanner (optional)
- 4) Spark ignitor
- 5) Spark ignitor removal
- 6) Air inlet test port 1/8" NPT
- 7) Pilot gas inlet 3/8" NPT
- 8) Gas inlet
- 9) Removal of optional flame rod
- 10) Tuning screw



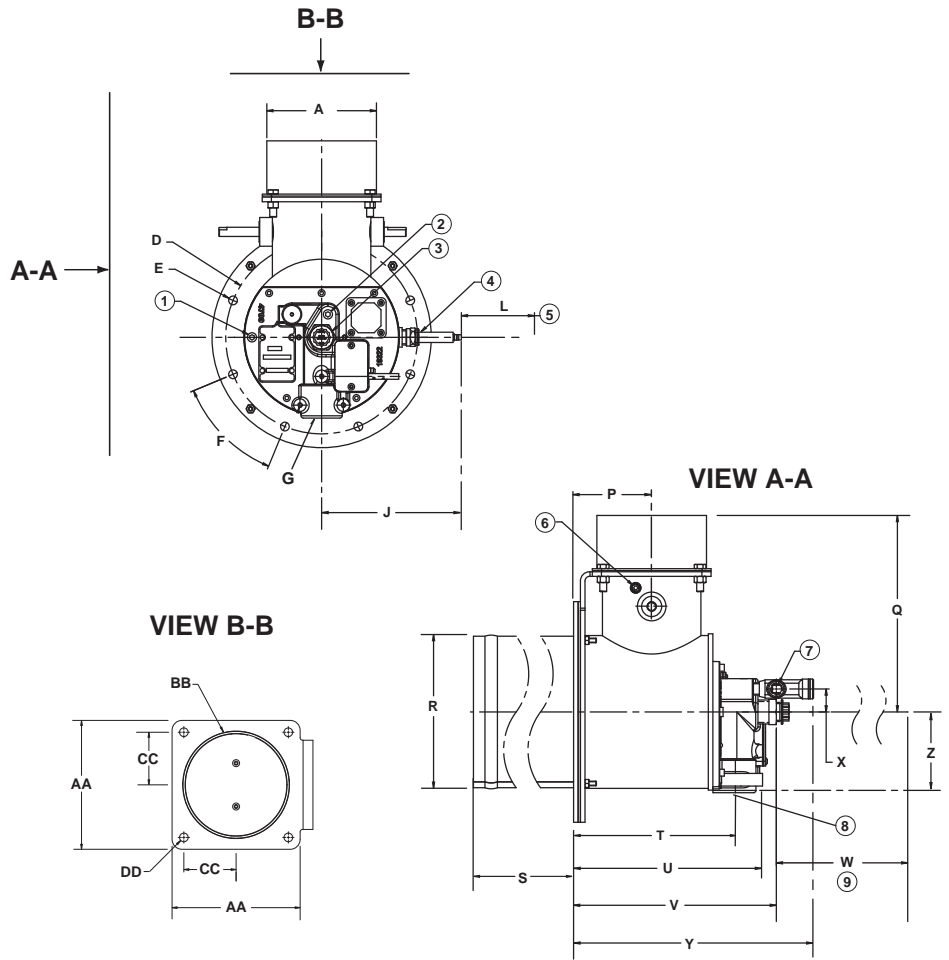
Dimensions in inches unless stated otherwise										
Model	A	B	C	D	E	F	G	P	Q	R
30	13.13	3.63	17.50	12.312	.475	45°	2" NPT	21.51	27.64	10.24
35	14.63	3.75	17.75	12.312	.475	45°	2" NPT	21.51	27.86	10.24
40	14.63	3.75	17.75	12.312	.475	45°	2" NPT	21.51	27.86	10.24
45	16.00	4.25	18.69	12.312	.475	45°	2" NPT	23.42	29.06	10.24

Dimensions in inches unless stated otherwise										
Model	S Std.	S Short	T	U	V	W	X	Y	Z	Weight lb
30	16.0	8.75	10.08	11.90	12.59	24.5	1.38	5.44	2.75	180
35			10.08	11.90	12.59	24.5	1.38	5.44	2.75	
40			10.08	11.90	12.59	24.5	1.38	5.44	2.75	
45			10.08	11.90	12.59	24.5	1.38	5.44	2.75	



Packaged EB40

- 1) Air test port 1/4" NPT
- 2) Gas test port 1/4" NPT
- 3) Flame rod or flame scanner (optional)
- 4) Spark ignitor
- 5) Spark ignitor removal
- 6) Air inlet test port 1/8" NPT
- 7) Pilot gas inlet 3/8" NPT
- 8) Gas inlet
- 9) Removal of optional flame rod

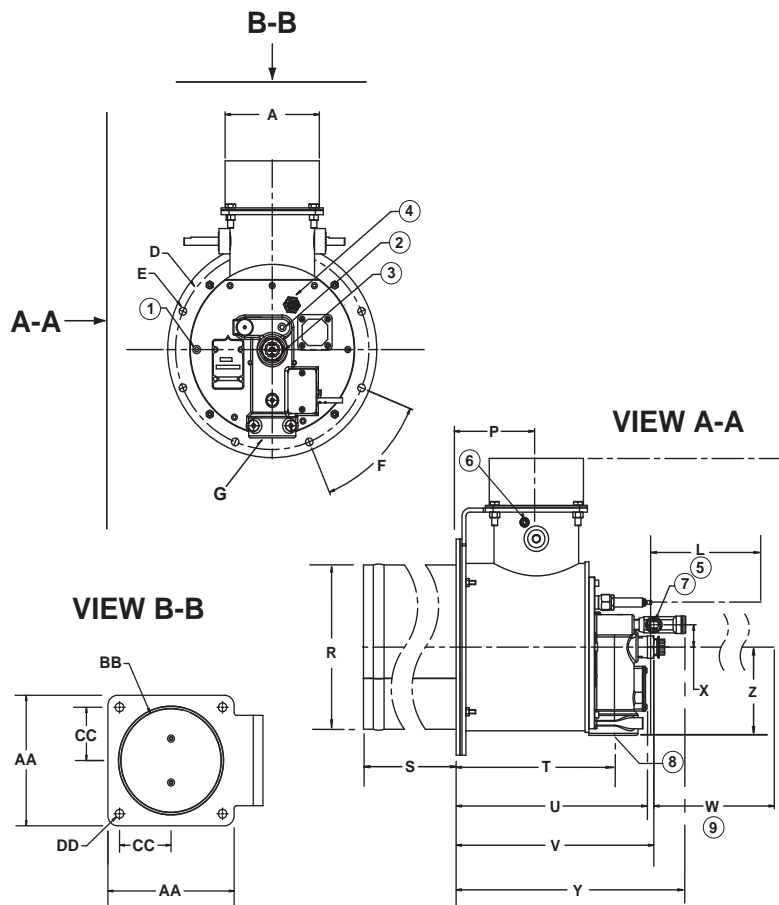


Dimensions in inches unless stated otherwise												
Model	A	D	E	F	G	J	L	P	Q	R	S Std.	S Short
EB40	6.0	10.50	.475	45°	1-1/4" NPT	2.375	4.0	4.0	10.89	8.36	12.0	4.63

Dimensions in inches unless stated otherwise												
Model	T	U	V	W	X	Y	Z	AA	BB	CC	DD	Weight lb
EB40	8.94	10.34	11.10	18.5	1.25	13.13	4.39	6.50	5.18	2.65	.438	45

Packaged EB65

- 1) Air test port 1/4" NPT
- 2) Gas test port 1/4" NPT
- 3) Flame rod or flame scanner (optional)
- 4) Spark ignitor
- 5) Spark ignitor removal
- 6) Air inlet test port 1/4" NPT
- 7) Pilot gas inlet 3/8" NPT
- 8) Gas inlet
- 9) Removal of optional flame rod
- 10) Tuning screw



Dimensions in inches unless stated otherwise

Model	A	D	E	F	G	H	L	P	Q	R	S Std.	S Short
EB65	6.0	12.31	.475	45°	2" NPT	2.375	7.0	5.11	11.62	10.24	16.0	8.75

Dimensions in inches unless stated otherwise

Model	T	U	V	W	X	Y	Z	AA	BB	CC	DD	Weight lb
EB65	10.08	11.90	12.59	24.5	1.38	14.62	5.44	6.50	5.18	2.65	.438	65

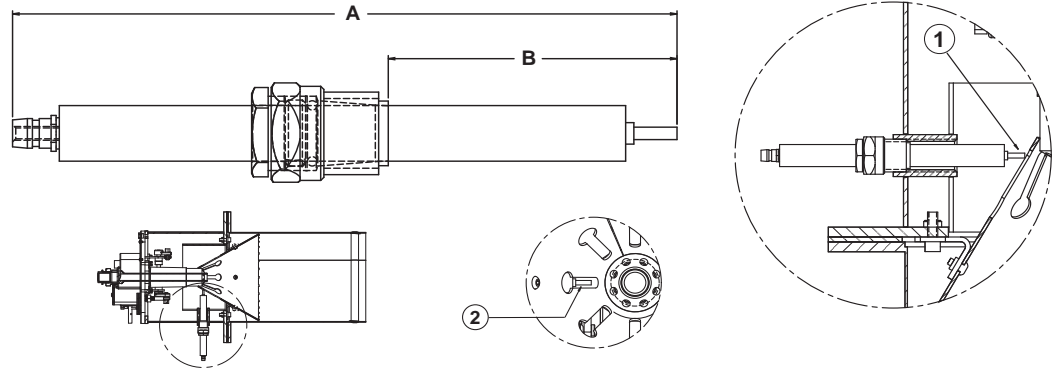


## Accessory dimensions

### Spark ignitors

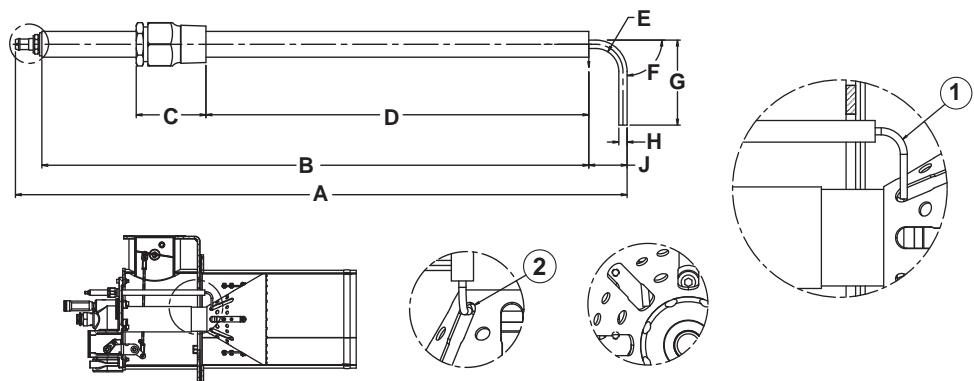
- 1) Set spark ignitor flush with outside of mixing cone
- 2) Spark ignitor

#### 13-25, EB 40



- 1) Set spark ignitor electrode 1/8"-3/16" from side of slot in mixing cone
- 2) Spark ignitor to be located within mixing cone slot, and at least 1/8" from edge of slot

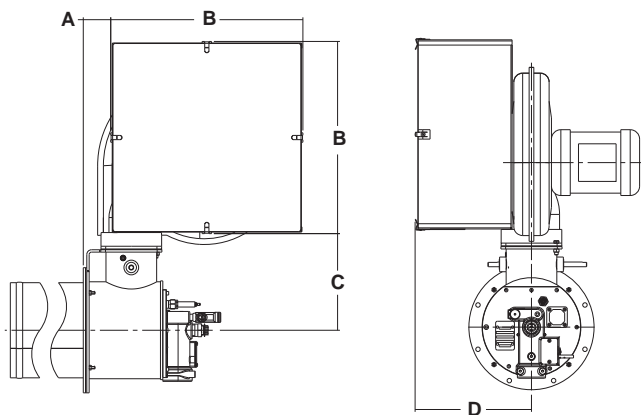
#### 30-45, EB65



Dimensions in inches unless stated otherwise

Burner model	A	B	C	D	E	F	G	H	J
13-25, EB40	6.47	2.81	-	-	-	-	-	-	-
30-45, EB65	13.42	12.0	1.53	8.4	5.00	90°	1.841	.182	.841

Filter-silencer



Size	dB(A)*	dB(A)* with silencer
13	85.7	81
15	86.1	82
25	87.2	84
30	89.3	82
35	89.5	82
40	89.5	82
45	88	83

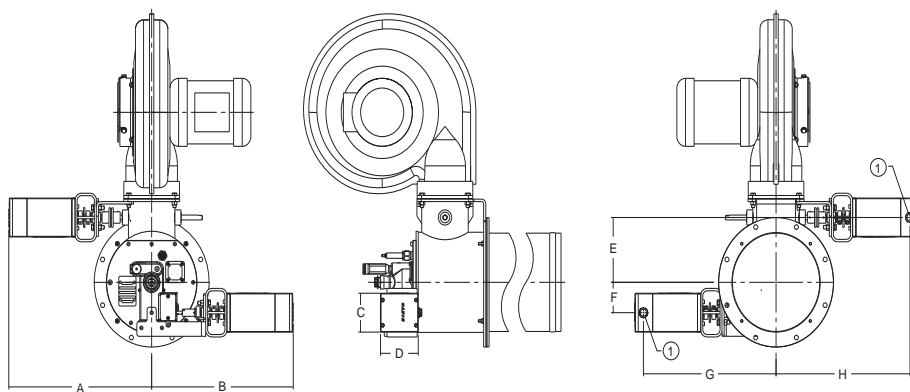
\* dB(A) measured at 39" to burner center

Dimensions in inches unless stated otherwise

Burner model	A	B	C	D
13	1.18	20.44	8.59	13.92
15	2.09	20.44	9.34	12.38
25	2.09	20.44	9.34	12.38
30	2.92	20.44	10.28	12.38
35	2.17	24.44	9.40	12.67
40	2.17	24.44	9.40	12.67
45	2.95	24.44	10.59	13.57

MAXON SMARTLINK® MRV

1) 1/2" -14 NPT



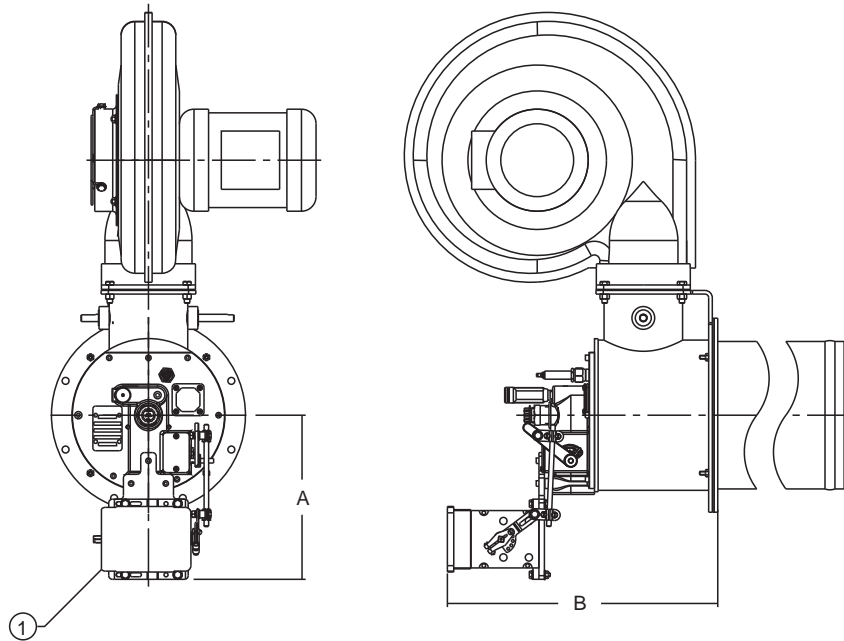
Dimensions in inches unless stated otherwise

Burner model	A	B	C	D	E	F	G	H
13-25	16.57	16.42	4.0	4.4	5.74	2.12	15.38	15.53
30-45 (shown)	16.57	16.42	4.0	4.4	6.67	3.13	15.38	15.53



Honeywell Modutrol

1) Control motor



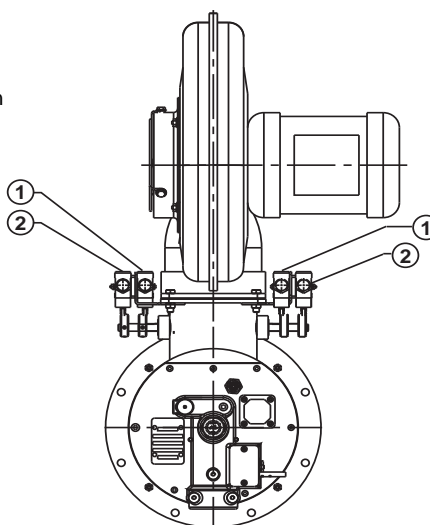
Dimensions in inches unless stated otherwise		
Burner model	A	B
13-25	10.26	17.00
30-45 (shown)	11.26	18.55

Typical hi/lo position switches

1) Lo position switch  
2) Hi position switch

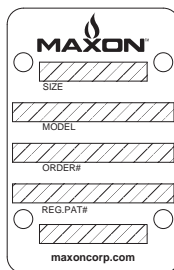
Left hand  
switch option

Right hand  
switch option



## Intelligent Model Numbers

A coded model number is provided on the nameplate of all OVENPAK® LE Burners to provide a simple method to identify the configuration of the product. This model number ensures accuracy in identifying your product, ordering replacement parts or communicating capabilities.



OVENPAK® LE model number													
Series	Model	Size	Pilot	Flame Detection	Fuel	Mixing Cone	Discharge Sleeve		Oven Wall Gasket	Blower Voltage (or Control Valves)	CB&L	Position Switch	Filter/Silencer (Pkgd. only)
S	OPL	1	S	U	N	S	S		N	1	A	A	N

### SERIES

S if special - blank if not

### MODEL

OPL - Model ID

### SIZE

1 - OPL 13  
2 - OPL 15  
3 - OPL 25  
4 - OPL 30  
5 - OPL 35  
6 - OPL 40  
7 - OPL 45  
A - EB40  
B - EB65

### PILOT

D - Direct spark  
S - Standard pilot

### FLAME DETECTION

R - Flame rod  
U - Provision for UV scanner

### FUEL

N - Natural gas  
P - Propane

### MIXING CONE

S - Standard

### DISCHARGE SLEEVE

C - Short sleeve 310SS  
H - High temperature sleeve 330SS  
S - Standard sleeve 310SS

### OVEN WALL GASKET

N - No  
Y - Yes

### BLOWER VOLTAGE - packaged units only

1 - 230/460/3/60 Right motor position std.  
2 - 575/3/60 Right motor position std.  
3 - 115/1/60 Right motor position std.  
4 - 230/460/3/60 Left motor position  
5 - 575/3/60 Left motor position  
6 - 115/1/60 Left motor position

### CONTROL VALVES - EB only

E - External control valves  
I - Internal control valves

### CB&L

A - No CB&L  
B - SMARTLINK CV  
C - SMARTLINK MRV  
D - Honeywell Mod CB&L only  
E - CB&L w/Honeywell Mod Motor  
F - CB&L w/Honeywell WP Mod Motor  
G - Siemens LMV CB&L only  
H - Honeywell R7999 CB&L only

### CB&L - EB40 and EB65 only:

A - No CB&L  
B - SMARTLINK MRV  
C - Siemens LMV CB&L only  
D - Honeywell R7999 CB&L only

### POSITION SWITCH

A - No position switch  
B - Omron low position switch  
C - Omron hi/lo position switch  
D - T'mechanique low position switch  
E - T'mechanique WP hi/lo pos switch

### FILTER/SILENCER

(packaged burners only)  
N - No filter or silencer  
S - Filter/silencer assembly

