



# LC Burner Series



## Quick Information

Burner Model:  
**LC100**

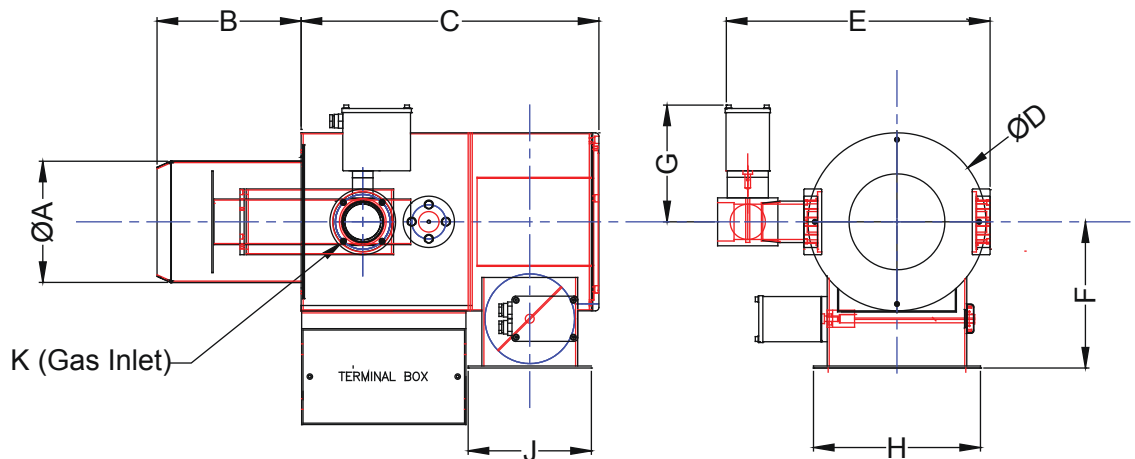
Firing Rate:  
10,000 kW/hr  
35,000,000 Btu/hr

Turndown:  
6:1 Gas Firing  
4:1 Oil Firing

Fuels:  
- Natural Gas  
- No.2 Oil  
- Dual Fuel  
*Other Fuels on Request*

Modulation Controls:  
Autoflame System

## DIMENSIONAL DATA



LC100	A	B	C	D	E	F	G	H	J	K
mm	490	595	814	630	721	460	253	550	396	4" 150lb
Inches	19.29	23.43	32.05	24.80	28.39	18.11	9.96	21.65	15.59	4" 150lb

Note: The dimensions shown are standard sizes. Dimensions A & B may change to suit a specific project.

## EMISSION DATA

### Emissions:

#### Natural Gas

- O<sub>2</sub> 3%
- CO<sub>2</sub> 10%
- CO < 10 ppm
- NO<sub>x</sub> < 30 ppm (with FGR)

#### No. 2 Fuel Oil

- O<sub>2</sub> 3 to 4%
- CO<sub>2</sub> 12.5 – 13.5%
- Smoke Less than Number 1

### Turndown:

6:1 (Natural Gas)  
4:1 (No.2 Fuel Oil)

Sound Emissions with Silencer: 85 dba @ 1m

Note: Emission data is based on natural gas having a calorific value of 1,000 Btu/cuft and No.2 fuel oil having a heating value of 140,000 Btu per gallon. All burner capacities are based at sea level up to 1,000 ft. For elevations higher than this, please contact Limpsfield.

For more information on the Limpsfield burner range,  
please do not hesitate to contact us.



Website: [www.limpsfield.co.uk](http://www.limpsfield.co.uk)  
Tel: 00 44 (0)1959 576 633





# BURNER DATA SHEET

## SET-UP DATA

General				
Item	Units	Setting	Units	Setting
Diffuser O.D	mm	376	Inches	14.80
Diffuser Flap Setting	mm	1	Inches	0.04
Blast Tube Tip to Diffuser Distance	mm	277	Inches	10.91
Gas Split Setting	mm	3	Inches	0.12
Pilot Injector Setting	mm	2	Inches	0.08
Electrode Setting	mm	3	Inches	0.12
Gas Head Length	mm	467	Inches	18.39

## BURNER DATA

Burner Data				
Details		Metric Units		Imperial Units
Burner Rating	MW	10.00	Mmbtu	35.00
Air at 15% Excess	m3/hr	11,055.7	Cuft/hr	390,425
Air + FGR @62.9°C / 145.22°F	m3/hr	13,819.5	Cuft/hr	488,031
No.2 Oil Input Rate (137,080 btu/gal)	L/hr	1,160.8	GPH	255.3
Gas Input Rate (1,000 btu/cuft)	m3/hr	991.10	Cuft/hr	35,000
Minimum Pilot Pressure	mbar	30	"WG	12.00
Gas Pressure to Burner	mbar	210	"WG	84.00
Gas Inlet Size	mm	100	Inches	4.00
Delta P Air	mbar	29.9	"WG	12.00
Delta P Air + FGR	mbar	44.80	"WG	18.00
Required Oil Pressure (Pressure Atomized)	Bar	25	PSI	368
Low Fire Spillback Pressure	Bar	11	PSI	160
High Fire Spillback Pressure	Bar	21	PSI	310
Required Oil Pressure (Air/Steam Atomized)	Bar	12	PSI	175
Typical Oil Nozzle Size	kg/hr	800	GPH	238.10
Oil Safety Solenoid Size	mm	9.50	Inches	0.38
Mounting P.C.D	mm	570.00	Inches	22.44
Mounting Hole ø	mm	17.00	Inches	0.67
Quantity of Mounting Holes:		8		8
Control Voltage	V	230	V	110
Typical Motor Size (Fan)	kW	22.0	HP	30

<b>Burner Mounted Control Parts</b> <i>(Parts Dependent on Site Requirements)</i>	Air Servo Motor	MM10004 or MM10004/D
	Fuel Servo Motor	MM10005 or MM10005/D
	Gas Valve	GVF410026/30U
	Oil Spillback Valve	OVS39023
<b>Flame Detection</b>	Self Check UV Scanner	MM60003/HS

# LC Burner Series

For more information on the Limpsfield burner range, please do not hesitate to contact us.



Website: [www.limpsfield.co.uk](http://www.limpsfield.co.uk)  
Tel: 00 44 (0)1959 576 633

