



LC Burner Series



Quick Information

Burner Model:
LC200

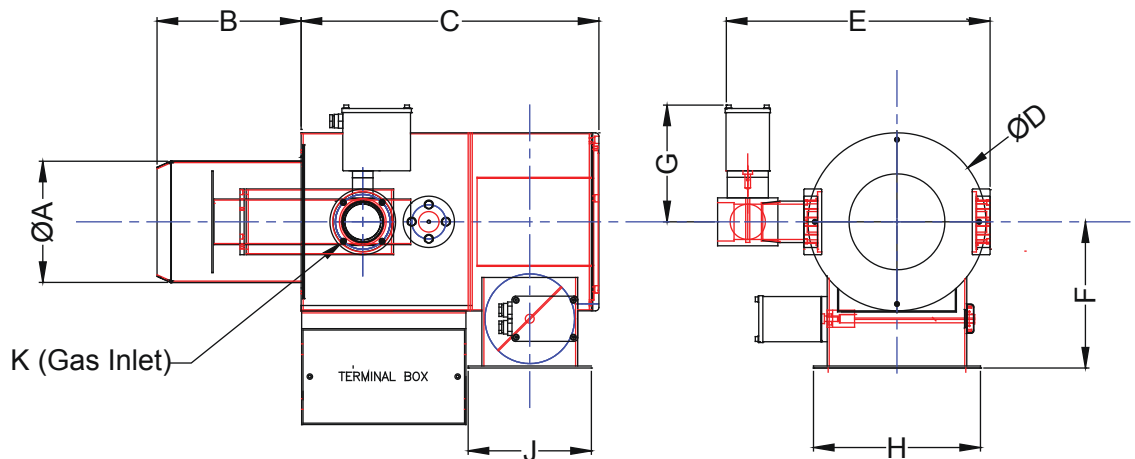
Firing Rate:
20,000 kW/hr
70,000,000 Btu/hr

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



LC200	A	B	C	D	E	F	G	H	J	K
mm	699	809	1,205	838	942	561	264	721	594	6" 150lb
Inches	27.52	31.85	47.44	32.99	37.09	22.09	10.39	28.39	23.39	6" 150lb

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

EMISSION DATA

Emissions:

Natural Gas

- O₂ 3%
- CO₂ 10%
- CO < 10 ppm
- NO_x < 30 ppm (with FGR)

No. 2 Fuel Oil

- O₂ 3 to 4%
- CO₂ 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
Tel: 00 44 (0)1959 576 633





BURNER DATA SHEET

SET-UP DATA

General				
Item	Units	Setting	Units	Setting
Diffuser O.D	mm	521	Inches	20.51
Diffuser Flap Setting	mm	1	Inches	0.04
Blast Tube Tip to Diffuser Distance	mm	382.516	Inches	15.06
Gas Split Setting	mm	4	Inches	0.16
Pilot Injector Setting	mm	2	Inches	0.08
Electrode Setting	mm	3	Inches	0.12
Gas Head Length	mm	661	Inches	26.02

BURNER DATA

Burner Data				
Details		Metric Units		Imperial Units
Burner Rating	MW	20.00	Mmbtu	70.00
Air at 15% Excess	m3/hr	22,111.3	Cuft/hr	780,850
Air + FGR @62.9°C / 145.22°F	m3/hr	27,639.1	Cuft/hr	976,062
No.2 Oil Input Rate (137,080 btu/gal)	L/hr	2,321.5	GPH	510.7
Gas Input Rate (1,000 btu/cuft)	m3/hr	1,982.19	Cuft/hr	70,000
Minimum Pilot Pressure	mbar	30	"WG	12.00
Gas Pressure to Burner	mbar	TBC on order	"WG	TBC on order
Gas Inlet Size	mm	150	Inches	6.00
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 (x2)	kg/hr	800	GPH	238.10
Oil Safety Solenoid Size	mm	12.70	Inches	0.50
Mounting P.C.D	mm	785.00	Inches	30.90
Mounting Hole ø	mm	14.00	Inches	0.55
Quantity of Mounting Holes:		12		12
Control Voltage	V	230	V	110
Typical Motor Size (Fan)	kW	45.0	HP	60
Burner Mounted Control Parts <i>(Parts Dependent on Site Requirements)</i>	Air Servo Motor			MM10004 or MM10004/D
	Fuel Servo Motor			MM10004 or MM10004/D
	Gas Valve			GVF415028/50U
	Oil Spillback Valve			OVS33L17
Flame Detection				Self Check UV Scanner MM60003/HS

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