



LC burner series



Quick Information

Burner Model:
LC450

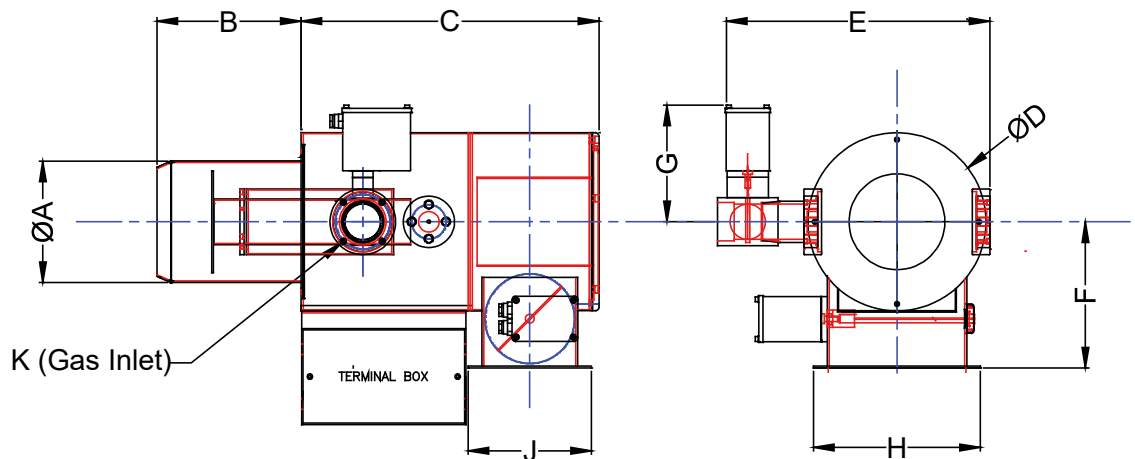
Firing rate:
45,000 kW/hr
153,000,000 Btu/hr

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



LC450	A	B	C	D	E	F	G	H	J	K
mm	1027	1285	2,163	1,506	1626	1,029	372	1248	1008	10" 150lb
Inches	40.43	50.59	85.16	59.29	64.02	40.51	14.65	49.13	39.69	10" 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 1000 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	781	Inches	30.75
Diffuser Flap setting	mm	3	Inches	0.12
Blat tube tip to diffuser distance	mm	576	Inches	22.68
Gas split setting	mm	5	Inches	0.20
Pilot injector setting	mm	2	Inches	0.08
Electrode setting	mm	3	Inches	0.12
Gas head length	mm	1214	Inches	47.80

BURNER DATA

Burner Data				
Details		Metric Units		Imperial Units
Burner rating	MW	45.00	Mmbtu	153.00
Air at 15% Excess	m3/hr	48499.6	Cuft/hr	1712739
Air + FGR @62.9°C / 145.22°F	m3/hr	60624.5	Cuft/hr	2140923
No.2 Oil input rate (137,080 btu/gal)	L/hr	5073.4	GPH	1116.0
Gas input rate (1000 btu/cuft)	m3/hr	4332.50	Cuft/hr	153000
Minimum Pilot pressure	mbar	30	"WG	12.00
Gas Pressure to burner	mbar	TBC on order	"WG	TBC on order
Gas inlet size	mm	250	Inches	10.00
Delta P Air	mbar	29.9	"WG	12.00
Delta P Air + FGR	mbar	44.80	"WG	18.00
Required oil pressure (Air/ Steam Atomized)	Bar	12	PSI	175
Typical oil nozzle size	kg/hr	3550	GPH	1056.55
Oil safety solenoid size	mm	19.00	Inches	0.75
Mounting P.C.D	mm	1400.00	Inches	55.12
Mounting Hole ø	mm	26.00	Inches	1.02
Quantity of mounting holes:		10		10
Control Voltage	V	230	V	110
Typical motor size (Fan)	kW	TBC on order	HP	TBC on order

Burner mounted control parts <i>(parts dependant on site requirements)</i>	Air servo motor	MM10004 or MM10004/D
	Fuel servo motor	MM10004 or MM10004/D
	Gas valve	GVF425028/50U
Flame detection	Oil spillback valve	OVM33L17
	Self check UV scanner	MM60003/HS

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