





## **Quick Information**

**Burner Model:** 

LC450

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

Turndown:

6:1 Gas Firing

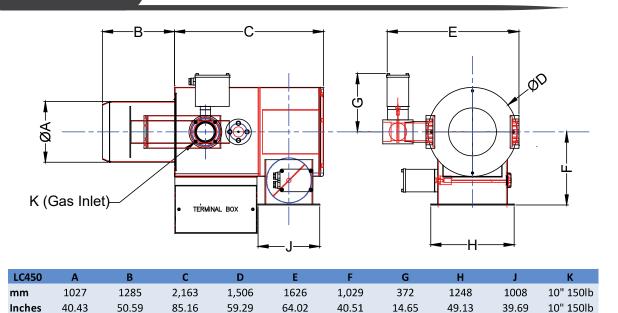
4:1 Oil firing

#### Fuels:

- Natural Gas
- No.2 Oil
- Dual fuel
  Other fuels on request

**Modulation Controls:** Autoflame System

## **DIMENSIONAL DATA**



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

### **EMISSION DATA**

### **Emissions:**

Natural gas

O2 3%CO2 10%

• CO < 10 ppm

NOx < 30 ppm (with FGR)</li>

#### 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.









# **BURNER DATA SHEET**

## **SET-UP DATA**

General							
ltem	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	НР	TBC on order				

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



