

PROPOSED BOILER - MODEL YSX 8000-LN38

IPPC DATA - (Boiler at MCR)

Figures are typical only, for a correctly installed, commissioned and operated boiler

Boiler Output (Actual)	8,000	kg/hr
Operating Pressure	0	Bar(g)
Fuel	Low NOx Natural Gas	
Efficiency (Gross)	86.00%	
Volume CO ₂ (dry)	13.50%	
Flue Gas Temperature	126	°C
Flue Diameter (Internal)	500	mm
Feed Water Temperature	100	°C
Saturation Temperature	100.00	°C
Energy to heat from 100°C to 100°C	0.00	kJ/kg
hfg at 0 Bar(g)	2257	kJ/kg
Total Energy Required	18,056,000	kJ/hr

Fuel Input	0.1092	kg/s
	5.8320	MWh
Flue Gas Volume (Dry Basis)	1.0686	Nm ³ /s
	3846.99	Nm ³ /hr
Efflux Velocity at 126°C	12.91	m/s
Water Consumption *	8.00	m ³ /hr

EMISSIONS **	mg/m ³ (dry)	g/s
PM ₁₀	0.016	0.0000
PM _{2.5}	0.016	0.0000
Carbon Monoxide (CO)	20	0.021
Carbon Dioxide (CO ₂)	267,004	285
NO _x	100	0.107
SO _x	0	0.0000
Water Vapour (H ₂ O)	-	283

* Excluding blowdown losses

** Typical Only (these are partly fuel dependent and can vary between batches of fuel)