

IPPC DATA - (Boiler at MCR)

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

Boiler Output (Actual)	12,794	kg/hr
Operating Pressure	10.34	Bar(g)
Fuel	Low NOx Natural Gas	
Efficiency (Gross)	87.88%	
Volume CO ₂ (dry)	10.18%	
Flue Gas Temperature	131	°C
Flue Diameter (Internal)	650	mm
Feed Water Temperature	108	°C
Saturation Temperature	185.40	°C
Energy to heat from 108°C to 185.4°C	324.31	kJ/kg
hfg at 10.34 Bar(g)	1996	kJ/kg
Total Energy Required	29,685,995	kJ/hr

Fuel Input	0.1757	kg/s
	9.3834	MWh
Flue Gas Volume (Dry Basis)	2.2800	Nm ³ /s
	8208.16	Nm ³ /hr
Efflux Velocity at 131°C	12.45	m/s
Water Consumption *	12.79	m ³ /hr

EMISSIONS **	mg/m³ (dry)	g/s
PM₁₀	0.012	0.0000
PM_{2.5}	0.012	0.0000
Carbon Monoxide (CO)	20	0.046
Carbon Dioxide (CO₂)	201,341	459
NO_x	100	0.228
SO_x	0	0.0000
Water Vapour (H₂O)	-	455

* Excluding blowdown losses

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