

Vigas Model 80kw with AK 4000 Lambda Controller		
Technical Data Sheet		
Nominal Boiler Output		273,000 BTU
Boiler Class According to EN 303-5		
Maximum Operating Pressure		Bar (3 Bar=43 PSI) 3
Fuel		Maximum Wood Moisture 15-20%
Output BTU Capacity		85k-314k
Fuel consumption w/nominal output	Pounds per hour	55
Chimney draught	Inches of H2O	.12-.16
Weight	Lbs.	2050
Height w/regulator	Inches	55.90"
Height of Exhaust branch	Inches	55.12"
Height of Inlet Branch	Inches	8.46"
Height of feed/water valve	Inches	5.31"
Height of chimney neck	Inches	46.02"
Width including rod	Inches	30.90" including chimney damper
Width including shell	Inches	29.22" width casing
Depth Exhaust	Inches	64.96" with fan
Diameter OD Draught Neck	Inches	20.47" exit hot air
Dimension from edge of Boiler	Inches	7.87" ascension throat diameter
Spacing of feed pipes	Inches	47.63"
Diameter of Inlet Port	Inches	2.76"
Diameter of Exhaust Port	Inches	2"
Diameter of Feed Water Valve	Inches	3/4"
Volume of Water	Gallons	54.15
Gas Temperature With Nominal Output	°F	464°
Gas Temperature With Minimal Output	°F	302°
Dimensions of Fuel Chamber		
Depth	Inches	45.27"
Width	Inches	22.63"
Height	Inches	28.74"
Max Weight of Fuel	Lbs.	330 lbs.
Fuel Chamber Capacity	Ft³	17.05
Dimensions of Gasification Chamber		
Gas Chamber (W)	Inches	22.63"
Gas Chamber (H)	Inches	12.51"
Noise	Decibel (dB)	54.2
Max Electric Output	W	140
Voltage Frequency	V/Hz	120 Volts AC/60 Hz
Pressure Loss of Water	Feet of head	
ΔT 50° F		.39'
ΔT 68° F		.09'
Time of burning with Nominal Output	Hours	4.2
Cooling exchanger of heat Temperature of inlet water Pressure of inlet water	°F PSI	39°-59° F Min 14 PSI-Max 58 PSI
Safety		Release valve Honeywell TS 130 3/4" for safety exchanger against overheating. Opening temperature 203°F.
Weight flow of gases	Kg/s	0.034-0.047