

Vigas Model UD 29 Coal with AK 4000 Lambda Controller

Technical Data Sheet

Nominal Boiler Output		100,000 BTU
Boiler Class According to EN 303-5		
Maximum Operating Pressure		Bar (3 Bar=43 PSI) 3
Fuel		Brown Coal
Output BTU Capacity		27k-119k
Fuel consumption w/nominal output	Pounds per hour	17.6
Chimney draught	Inches of H2O	.08-.10
Weight	Lbs.	948
Height w/regulator	Inches	44.09"
Height of Exhaust branch	Inches	41.50"
Height of Inlet Branch	Inches	4.33"
Height of feed/water valve	Inches	2.16"
Height of chimney neck	Inches	35.03"
Width including rod	Inches	25.39" including chimney damper
Width including shell	Inches	23.22" width casing
Depth	Inches	42.15" with fan
Exhaust	Inches	9.44" exit hot air
Diameter OD Draught Neck	Inches	6.29" ascension throat diameter
Dimension from edge of Boiler	Inches	9.05"
Spacing of feed pipes	Inches	13.77"
Diameter of Inlet Port	Inches	2"
Diameter of Exhaust Port	Inches	2"
Diameter of Feed Water Valve	Inches	1/2"
Volume of Water	Gallons	19.81
Gas Temperature With Nominal Output	°F	464°
Gas Temperature With Minimal Output	°F	302°
Dimensions of Fuel Chamber		
Depth	Inches	19.29"
Width	Inches	17.32"
Height	Inches	19.68"
Max Weight of Fuel	Lbs.	66 lbs.
Fuel Chamber Capacity	Ft³	3.70
Dimensions of Gasification Chamber		
Gas Chamber (W)	Inches	17.10"
Gas Chamber (H)	Inches	10.03"
Noise	Decibel (dB)	45.5
Max Electric Output	W	70
Voltage Frequency	V/Hz	120 Volts AC/60 Hz
Pressure Loss of Water	Feet of head	
ΔT 50° F		.33'
ΔT 68° F		.03'
Time of burning with Nominal Output	Hours	5.60
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 ¾" for safety exchanger against overheating. Opening temperature 203°F.
Weight flow of gases	Kg/s	0.034-0.047