

TECHNICAL DATA SHEET

VIGAS		16	25	40	60	80	100	TVZ 25	DP 18	UD 29 WOOD	UD 29 COAL
Nominal Boiler Output	BTU	54k	85k	136k	205k	273k	341k	85k	62k	100k	100k
Boiler Class According to EN 303-5								3			
Maximum Operating Pressure			BAR (3 BAR= 43 psi)					3			
Fuel	Wood maximum moisture 15-20%										Brown Coal
Output Capacity	BTU	41k-61k	17k-105k	27k-140k	51k-245k	85k-314k	85k-341k	17k-95k	41k-62k	27k-100k	27k-119k
Fuel Consumption w/ Nominal Output	Pounds per hour	9.9	16.7	24.6	41.8	55	67	16.8	17.19 wood* 9.92 pellet	17	17.6
Substitute fuel		Wood waste, splinters, saw dust, saw dust briquettes (for UD 29 also wood) max moisture 20%									
Chimney Draught	In. of H ₂ O	.08 -.10		.08 -.14		.12 -.16		.06 -.08		.08 -.10	
Weight	Lbs	882	948	1015	1676	2050	2094	993	1058	948	948
Height w/ Regulator	A Inches	44.68"	44.68"	54.53"	55.90"	55.90"	55.90"	47.24"		44.09"	44.09"
Height of Exhaust Branch	B Inches	38.39"	41.50"	51.57"	55.12"	55.12"	55.12"	40.74"		41.50"	41.50"
Height of Inlet Branch	C Inches	4.53"	4.53"	4.92"	8.46"	8.46"	8.46"			4.33"	4.33"
Height of feed/water valve	D Inches	2.16"	2.36"	2.75"	5.31"	5.31"	5.31"			2.16"	2.16"
Height of Chimney Neck	E Inches	35.03"	35.03"	43.30"	46.02"	46.02"	46.02"			35.03"	
Width Including Rod	F Inches	25.39"	25.39"	25.39"	30.90"	30.90"	30.90"	25.39"		25.39"	25.39"
Width Including Shell	G Inches	23.22"	23.22"	23.22"	29.22"	29.22"	29.22"	23.23"		23.22"	23.22"
Depth	H Inches	33.07"	42.15"	42.15"	49.60"	64.96"	64.96"	45.66"		42.15"	42.15"
Exhaust	I Inches	9.44"	9.44"	9.44"	20.47"	20.47"	20.47"	9.45"		9.44"	9.44"
Dia. OD Draught Neck	J Inches	6.29"	6.29"	7.87"	7.87"	7.87"	7.87"	6.26"		6.29"	6.29"
Dimension from Edge of Boiler	K Inches	7.40"	12.00"	34.64"	47.63"	47.63"				9.05"	9.05"
Spacing of Feed Pipes	L Inches	15.94"	15.94"	15.94"	2.76"	2.76"	2.76"			13.77"	
Diameter of Inlet Port	G Inches	2"	2"	2"	2"	2"	2"			2"	
Diameter of Exhaust Port	G Inches	2"	2"	2"	2"	2"	2"			2"	
Diameter of Feed Water Valve	G Inches	½"	½"	½"	¾"	¾"	¾"			½"	
Volume of Water	I Gallons		19.81	24.56	47.55	54.15	56.79			19.81	
Gas Temperature With Nominal Output	°F	464°	464°	464°	464°	464°	464°			464°	
Gas Temperature With Minimal Output	°F	302°	302°	302°	302°	302°	302°			302°	
DIMENSIONS OF FUEL CHAMBER											
Depth	Inches	14.56"	22.04"	22.04"	29.52"	45.27"	42.91"			19.29"	
Width	Inches	17.32"	17.32"	17.32"	22.63"	22.63"	22.63"			17.32"	
Height	Inches	19.29"	19.29"	29.52"	29.52"	28.74"	28.74"			19.68"	
Max Weight of Fuel	Lbs.	44 lbs	66 lbs	88 lbs	176 lbs	330 lbs	330 lbs			66 lbs	
Fuel Chamber Capacity	Ft ³	2.83	4.23	6.53	11.12	17.05	16.13			3.70	
DIMENSIONS OF GASIFICATION CHAMBER											
Gas. Chamber (W)	Inches	17.12"	17.12"	17.12"	22.63"	22.63"	22.63"			17.12"	
Gas. Chamber (H)	Inches	10.03"	10.03"	10.03"	12.51"	12.51"	12.51"			10.03"	
Noise	Decibel (dB)	45	45.5	47.7	51.4	54.2	54.2			45.5	
Max Electric Input	W	70	70	70	140	140	140			70	
Voltage/Frequency	V/Hz	120 Volts AC /60 Hz									
Pressure Loss of Water ΔT 50° F ΔT 68° F	Feet of Head	.32' of head .03' of head	.33' of head .03' of head	.35' of head .08' of head	.42' of head .10' of head	.39' of head .09' of head	.38' of head .09' of head			.33' of head .03' of head	
Time of Burning with Nominal Output	Hours	4.5	4.2	4.3	4.2	4.2	4			5.60(4.10)	
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 over heating. Opening temperature 203° F									
Weight flow of gases	Kg/s	0.034-0.047									