Technical Specifications Triple Green Products

Chain Grate *Green Flame Stoker Combustion System*

Made in North America

Boiler Model		CGS-154	CGS-277	CGS-345	CGS-500	CGS-563	CGS-662	CGS-750	CGS-993	CGS-1157	CGS-1323	CGS-1654	CGS-1985	CGS-2315	CGS-2645	CGS-3075
Maximum Output	mmBTU (kW)	1.0 (293)	1.7 (498)	2.4 (703)	3.1 (908)	3.8 (1113)	4.5 (1260)	5.1 (1494)	6.7 (1963)	7.5 (2198)	9.2 (2696)	10.7 (3135)	13.4 (3927)	14.7 (4396)	16.7 (4894)	20.1 (5890)
Minimum Output	btu	90,000	144,000	150,000	200,000	300,000	360,000	410,000	540,000	630,000	710,000	900,000	1,075,000	1,250,000	1,450,000	1,700,000
Hold Fire Stage	btu	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	150,000	150,000	150,000	150,000	200,000	200,000
Efficiency	%		85%													
Fuel Moisture Content	%		10% - 45%													
Exhaust Flue Gas Outlet																
Chimney Size	(in.)	10	10	12	12	14	16	16	16	16	18	18	20	20	22	24
Mass Flow	ACFM	280	348	520	750	1159	1272	1650	1912	2143	2607	3012	3475	4229	5213	6082
Average Flue Gas Temp FL	*F(*C)		350 (177)													
Average Flue Gas Temp PL	*F(*C)		240 (115)													
Stoker Chimney Draft Negative	WC		.010 - .035													
Weight Approximate	LBS	10,000	11,000	13,300	18,000	21,000	24,300	26,800	30,300	32,850	42,500	49,000	55,000	64,000	68,000	74,000
Size of Wood Chips (& other)		Sizes Range (in.) (3/4" - 3")								CAN/CSA-B366.1-M91 (R2007)						
Electrical Connections																
Wood Fired Stoker		**Motor HP**														
Multi-Screw		0.75	0.75	0.75	0.75	1	1	1	1	1	1	1.5	1.5	1.5	2	2
Combustion Fan #1		0.75	0.75	0.75	0.75	1	1	1	1	1	2	2	2	2	3	3
Combustion Fan #2		0	0	0	0	1	1	1	1	1	2	2	2	2	3	3
Over-Fire Air #1		1.5	1.5	1.5	1.5	2	2	2	2	3	3	3	5	5	5	5
Over-Fire Air #2		0	0	0	0	2	2	2	2	3	3	3	3	3	5	5
FRG-Flue Gas Recirculation	Optional	0	0	0	0	2	2	2	2	2	3	3	3	3	5	5
Chain Grate		0.5	0.5	0.5	0.5	0.5	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1	1	1
Ash Auger #1		1	1	1	1	1	1	1	1	1	1.5	1.5	1.5	2	2	2
Ash Auger #2		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Ash Auger #3		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Ash Auger #4		0	0	1	1	1	1	1	1	1	2	2	2	2	2	3
Flue-Gas Exhaust Blower		2	2	2	3	3	3	5	5	5	5	5	7.5	7.5	7.5	10
Walking Floor Optional		**Motor HP**														
Walking Floor HPU		5	5	5	5	7.5	7.5	7.5	7.5	7.5	10	10	15	15	20	25
Fuel Recigim Screw (Horiztl)		3	3	3	5	5	5	5	5	5	5	5	5	5	5	5
Fuel Transfer Screw (incline)		3	3	3	5	5	5	5	5	5	5	5	5	5	5	5
Motor RPM		1,750														
Voltage 575/480/230/3 Ph	1 ph Optional															
Heating		**Hot Water/Steam**														
Boiler Water Volume	USG	172	323	401	520	740	875	980	1220	1330	1554	1443	1720	1979	2718	3665
Furnace Volume	Cu.Ft	21.7	39.7	49.1	58.9	89.3	104.7	130	139.2	160.7	186.5	234	301	348.6	383.8	505.6
Volume on Heating Water Side	Sq./Hr	154	277	345	500	563	662	750	993	1157	1323	1654	1985	2315	2645	3075
Max Water Pressure	PSI	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Max Steam Pressure	PSI	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Max Water Temp	*F	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
Min Water Temp	*F	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150