

Engineering Data – GTD Series

Capacity and Internal Data						
	Model Size	160	320	480	800	1120
SIZE & CAPACITY	Input B.T.U./Hour (Maximum)	200,000	400,000	600,000	1,000,000	1,400,000
	Output B.T.U./Hour(B)	160,000	320,000	480,000	800,000	1,120,000
	Input B.T.U./Hour (Minimum)	100,000	100,000	86,000	294,118	435,294
FIRING RATE & MANIFOLD SIZE	Natural Gas at 1,000 B.T.U./C.F.	200	400	600	1,000	1,400
	Nat. Gas Std. Pipe Size (7" W.C.)	3/4"	3/4"	1"	1"	1-1/4"
	Manifold Pressure	1.5	2.8	4.7	2.0	2.0
	Orifice Size	#4	NR	NR	NR	NR
	Propane Fuel at 2,500 B.T.U./C.F.	80	160	240	400	560
	L. P. Gas Std. Pipe Size (11" W.C.)	3/4"	3/4"	1"	1"	1-1/4"
	Manifold Pressure	1.5	2.2	2.5	1.7	1.2
SUPPLY AIR CAPACITY	Minimum Airflow	1,481	2,963	4,444	7,407	10,370
	Maximum Airflow	4,938	9,877	14,815	24,691	34,568
COMBUSTION AIR & VENTING REQUIREMENTS	Combustion Air Requirements (CFM)	39	77	115	192	268
	Recommended Minimum Stack Size Diameter	4"	6"	7"	9"	10"
	Maximum Vent Length - Equivalent Length (Ft)	50	50	50	50	50
INTERNAL DATA OF HEAT EXCHANGER (A)	Primary Heating Surface – Sq. Feet	13.49	21.35	32.97	51.21	66.65
	Secondary Htg. Surface (Tubes & Headers) – Sq. Feet	16.23	27.87	45.75	65.46	94.18
	Primary Combustion Volume – Cu. Feet	3.47	6.94	12.73	25.75	39.49
	Secondary Combustion Volume – Cu. Feet	0.93	1.74	2.76	4.22	5.64
	Total Combustion Chamber Volume – Cu. Feet	4.40	8.68	15.49	29.97	45.13
AMP DRAW	115 Volt, 1 Phase	8.70	8.70	13.04	13.04	13.04
	230 Volt, 1 Phase	4.35	4.35	6.52	6.52	6.52
	200 Volt, 3 Phase	5.00	5.00	7.50	7.50	7.50
	230 Volt, 3 Phase	4.35	4.35	6.52	6.52	6.52
	460 Volt, 3 Phase	2.17	2.17	3.26	3.26	3.26
	575 Volt, 3 Phase	1.74	1.74	2.61	2.61	2.61

(A) Standard construction - 400 series stainless steel primary and secondary material.

(B) Based on 80% operating efficiency.

Engineering Data – GTDM Series

Capacity and Internal Data						
	Model Size	25	35	40	50	55
SIZE & CAPACITY	Input MBH	312	437	500	625	687
	Output MBH(A)	250	350	400	500	550
FIRING RATE & MANFOLD SIZE	Natural Gas @ 1,000 B.T.U./C.F.	312	437	500	625	687
	Gas Connection @ 7" W.C. (Natural Gas)	3/4"	3/4"	1"	1"	1"
	Gas Connection @ 14" W.C. (Natural Gas)	3/4"	3/4"	3/4"	3/4"	1"
EQUIPMENT DATA	Combustion Air Required (C.F.M.)	80	110	130	160	180
	Exhauster Model	12	12	12	12	12
	Exhauster H.P.	1/3	1/3	1/3	1/3	1/3
	Burner H.P.	1/3	1/3	1/3	1/3	1/3
	Recommended Min. Stack Size – Dia.	8"	8"	8"	8"	8"
AMP DRAW (B)	200 Volt, 3 Phase	21.9	21.9	16.3	16.3	16.3
	230 Volt, 3 Phase	20.9	20.9	15.1	15.1	15.1
	460 Volt, 3 Phase	17.7	17.7	11.2	11.2	11.2
	575 Volt, 3 Phase	17.0	17.0	10.4	10.4	10.4
	Model Size	65	75	85	100	125
SIZE & CAPACITY	Input MBH	812	987	1,062	1,250	1,562
	Output MBH(A)	650	750	850	1,000	1,250
FIRING RATE & MANFOLD SIZE	Natural Gas @ 1,000 B.T.U./C.F.	812	987	1,062	1,250	1,562
	Gas Connection @ 7" W.C. (Natural Gas)	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
	Gas Connection @ 14" W.C. (Natural Gas)	1"	1"	1"	1"	1 1/4"
EQUIPMENT DATA	Combustion Air Required (C.F.M.)	210	240	275	325	400
	Exhauster Model	12	12	14	14	18
	Exhauster H.P.	1/3	1/3	1/2	1/2	2
	Burner H.P.	1/3	1/3	1/3	1/3	1/2
	Recommended Min. Stack Size – Dia.	10"	10"	10"	10"	12"
AMP DRAW (B)	200 Volt, 3 Phase	16.3	16.3	17.2	19.7	26.7
	230 Volt, 3 Phase	15.1	15.1	15.9	18.1	24.5
	460 Volt, 3 Phase	11.2	11.2	11.6	12.6	17.1
	575 Volt, 3 Phase	10.4	10.4	10.7	11.6	15.7

(A) Based on 80% operating efficiency.

(B) Based on G-P burners.