

## Metering Timing Chart - Gas Input to Burners in Cubic Feet Per Hour

Seconds for one Revolution of the Dial	SIZE OF METER DIAL				
	1/2 CU.FT.	1 CU.FT.	2 CU.FT.	5 CU.FT.	10 CU.FT.
	THOUSAND BTU'S PER HOUR @ 1000 BTU'S/CU.FT.				
10	180	360	720	1800	3600
11	164	327	655	1636	3272
12	150	300	600	1500	3000
13	138	277	555	1385	2770
14	129	257	514	1286	2572
15	120	240	480	1200	2400
16	112	225	450	1125	2250
17	106	212	424	1059	2118
18	100	200	400	1000	2000
19	95	189	379	947	1894
20	90	180	360	900	1800
21	86	171	343	857	1714
22	82	164	327	818	1636
23	78	157	313	783	1566
24	75	150	300	750	1500
25	72	144	288	720	1440
26	69	138	277	692	1384
27	67	133	267	667	1334
28	64	129	257	643	1286
29	62	124	248	621	1242

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	THOUSAND BTU'S PER HOUR @ 1000 BTU'S/CU.FT.				
30	60	120	240	600	1200
31	58	116	232	581	1162
32	56	113	225	563	1126
33	55	109	218	545	1090
34	53	106	212	529	1058
35	51	103	206	514	1028
36	50	100	200	500	1000
37	49	97	195	486	972
38	47	95	189	474	948
39	46	92	185	462	924
40	45	90	180	450	900
41	44	88	176	440	880
42	43	86	172	430	860
43	42	84	167	420	840
44	41	82	164	410	820
45	40	80	160	400	800
46	39	78	157	391	782
47	38	77	153	383	766
48	37	75	150	375	750
49	37	73	147	367	734

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	THOUSAND BTU'S PER HOUR @ 1000 BTU'S/CU.FT.				
50	36	72	144	360	720
51	35	71	141	353	706
52	35	69	138	346	692
53	34	68	136	340	680
54	33	67	133	333	666
55	33	65	131	327	654
56	32	64	129	321	642
57	32	63	126	316	632
58	31	62	124	310	620
59	30	61	122	305	610
60	30	60	120	300	600
62	29	58	116	290	580
64	29	56	112	281	562
66	29	54	109	273	546
68	28	53	106	265	530
70	26	51	103	257	514
72	25	50	100	250	500
74	24	48	97	243	486
76	24	47	95	237	474
78	23	46	92	231	462

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	THOUSAND BTU'S PER HOUR @ 1000 BTU'S/CU.FT.				
80	22	45	90	225	450
82	22	44	88	220	440
84	21	43	86	214	428
86	21	42	84	209	418
88	20	41	82	205	410
90	20	40	80	200	400
94	19	38	76	192	384
98	18	37	74	184	368
100	18	36	72	180	360
104	17	35	69	173	346
108	17	33	67	167	334
112	16	32	64	161	322
116	15	31	62	155	310
120	15	30	60	150	300
130	14	28	55	138	276
140	13	26	51	129	258
150	12	24	48	120	240
160	11	22	45	113	226
170	11	21	42	106	212
180	10	20	40	100	200

HEATING UNIT TYPE	Oxygen	Net Stack Temperature	Smoke Test	(CO) Carbon Monoxide Max ppm
<b>GAS</b> (Natural Gas, Propane) atmosheric	4-9%	300-600 F	N/A	100
Fan Assisted	4-9%	300-480 F	N/A	100
Condensing	PMI	PMI	N/A	100
Space Heaters	5-15%	300-650 F	N/A	100
Standard Power Burner	4-9%	275-550 F	N/A	100
<b>OIL</b>				
Standard Oil Burner	4-9%	325-600 F	1 or less	100
Flame Retention	4-7%	325-600 F	1 or less	100
Condensing	PMI	PMI	1 or less	100

Heating Unit Type	Draft Gauge Probe Placement	Worst Case Acceptable Draft Readings at Listed Outdoor Temperatures				
<b>Gas Atmospheric Appliances</b>	Flue (before & after diverter)	< 21	21-40	41-60	61-80	> 80
<b>Gas Fan-assisted Appliances</b>		- 5Pa	- 4Pa	- 3Pa	- 2Pa	- 1Pa
<b>Gas Power Burners</b>		- .02	- .016	- .012	- .008	- .004
<b>Gas Boilers</b>	Flue (after diverter)	"w.c.	"w.c.	"w.c.	"w.c.	"w.c.
<b>Oil Burners</b>	Flue (before Barometric Damper)	- 15 Pa	- 13 Pa	- 11 Pa	- 9 Pa	- 7 Pa
		- .06	- .053	- .045	- .038	- .03
		"w.c.	"w.c.	"w.c.	"w.c.	"w.c.