

Dan Hammett
HandCrafted Ceramic Studio©

USING NATURAL GAS WITH 1000 BTU'S PER CU. FT.
UNDER IDEAL COMBUSTION

1 OZ. PRESSURE – 1.6" WATER COLUMN

oz/psi	orifice size	approx. cu. ft./hr.	approx. btu/hr.
5 oz.	1/32"	8.25	8250
	1/16	15	15000
	3/32	33	33000
	1/8	60	60000
	3/16	132	132000
6 oz.	1/32"	9.4	9400
	1/16	17	17000
	3/32	37.5	37500
	1/8	67.5	67500
	3/16	150	150000
7 oz.	1/32"	10.1	10100
	1/16	18	18000
	3/32	40.5	40500
	1/8	72	72000
	3/16	162	162000
8 oz.	1/32"	10.5	10500
	1/16	19.5	19500
	3/32	42	42000
	1/8	78	78000
	3/16	168	168000
10 oz.	1/32"	12	12000
	1/16	21	21000
	3/32	48	48000
	1/8	84	84000
	3/16	192	192000

oz/psi	orifice size	approx. cu. ft./hr.	approx. btu/hr.
12 oz.	1/32"	13.125	13125
	1/16	24	24000
	3/32	52.5	52500
	1/8	96	96000
	3/16	210	210000
14 oz.	1/32"	14.125	14125
	1/16	26.125	26125
	3/32	57	57000
	1/8	105	105000
	3/16	228	228000
16 oz.	1/32"	15	15000
	1/16	27	27000
	3/32	60	60000
	1/8	108	108000
	3/16	240	240000
24 oz.	1/32"	18.75	18750
	1/16	33	33000
	3/32	75	75000
	1/8	132	132000
	3/16	300	300000
32 oz.	1/32"	21.531	21531
	1/16	37.5	37500
	3/32	86.125	86125
	1/8	150	150000
	3/16	345	345000

15000 BTU/CU. FT. RULES for CONSTRUCTION

10 CU. FT. Kiln

150,000 BTU

(H.F.B.) Hard brick kiln with 9" walls, requires:

12,000 - 17,000 BTU/CF for cone 06

14,000 - 18,500 BTU/CF for cone 6

16,000 - 20,000 BTU/CF for cone 10

(I.F.B.) soft brick kiln with 9" walls requires:

6,000 - 10,000 BTU/CF for cone 06

8,000 - 13,000 BTU/CF for cone 6

10,000 - 16,000 BTU/CF for cone 10