

Table 1a Burner orifice sizing and starting air settings

Input Note 1	B-Tube with 11-Head			C-Tube with 21-Head			D-Tube with 32-Head		
	Burner orifice drill size Inches		Approximate air settings Notes 1 & 2	Burner orifice drill size Inches		Approximate air settings Notes 1 & 2	Burner orifice drill size Inches		Approximate air settings Notes 1 & 2
Btuh	Natural gas	Propane gas	Air damper position	Natural gas	Propane gas	Air damper position	Natural gas	Propane gas	Air damper position
700,000	19/32 (.5937)	7/16 (.4375)	0.5	NA	NA	NA	NA	NA	NA
750,000	5/8 (.6250)	15/32 (.4687)	2	NA	NA	NA	NA	NA	NA
800,000	21/32 (.6562)	31/64 (.4843)	2.25	21/32 (.6562)	1/2 (.5000)	closed	NA	NA	NA
850,000	11/16 (.6875)	1/2 (.5000)	3.75	11/16 (.6875)	33/64 (.5156)	0.5	NA	NA	NA
900,000	23/32 (.7187)	17/32 (.5312)	4	23/32 (.7187)	17/32 (.5312)	1	11/16 (.6875)	35/64 (.5469)	closed
950,000	25/32 (.7812)	35/64 (.5469)	7	3/4 (.7500)	35/64 (.5469)	1.5	23/32 (.7187)	9/16 (.5625)	0.5
1,000,000	7/8 (.8750)	9/16 (.5625)	open	27/32 (.8437)	9/16 (.5625)	2.5	3/4 (.7500)	19/32 (.5937)	1
1,050,000	NA	NA	NA	1 (1.000)	19/32 (.5937)	3	25/32 (.7812)	39/64 (.6049)	2.25
1,100,000	NA	NA	NA	NA	NA	NA	13/16 (.8125)	5/8 (.6250)	2.5
1,150,000	NA	NA	NA	NA	NA	NA	27/32 (.8437)	NA	3
1,200,000	NA	NA	NA	NA	NA	NA	7/8 (.8750)	41/64 (.6406)	4
1,250,000	NA	NA	NA	NA	NA	NA	15/16 (.9375)	NA	5
1,300,000	NA	NA	NA	NA	NA	NA	31/32 (.9687)	21/32 (.6562)	5.5
1,350,000	NA	NA	NA	NA	NA	NA	1 (1.000)	11/16 (.6875)	6
1,400,000	NA	NA	NA	NA	NA	NA	1 1/16 (1.063)	23/32 (.7187)	6.5
1,450,000	NA	NA	NA	NA	NA	NA	1 1/8 (1.125)	3/4 (.7500)	8.75
1,500,000	NA	NA	NA	NA	NA	NA	1 1/4 (1.25)	23/32 (.7182)	open
Note 1	Ratings: • All ratings above are based on sea level. • Altitude ratings: Reduce maximum capacity by 4% per 1,000 feet above sea level. — Example: The maximum "B"-tube/11 head capacity at 5,000 feet altitude is 800,000 Btuh instead of 1,000,000, a 20% reduction. Positive overfire pressure effects: • Maximum burner input decreases with increasing overfire pressure. • Assume a reduction in maximum burner input of approximately 5% at 0.1 inches w.c. and 10% at 0.2 inches w.c. • You will have to increase the air damper opening to compensate for the increased pressure. • Follow the procedures given in this manual to check combustion with instruments to determine the correct air setting. • Never fire at a higher overfire pressure than recommended by the appliance manufacturer.								
Note 2	Use air settings for starting only. Adjust air setting, if necessary, after performing combustion testing (see page 18).								